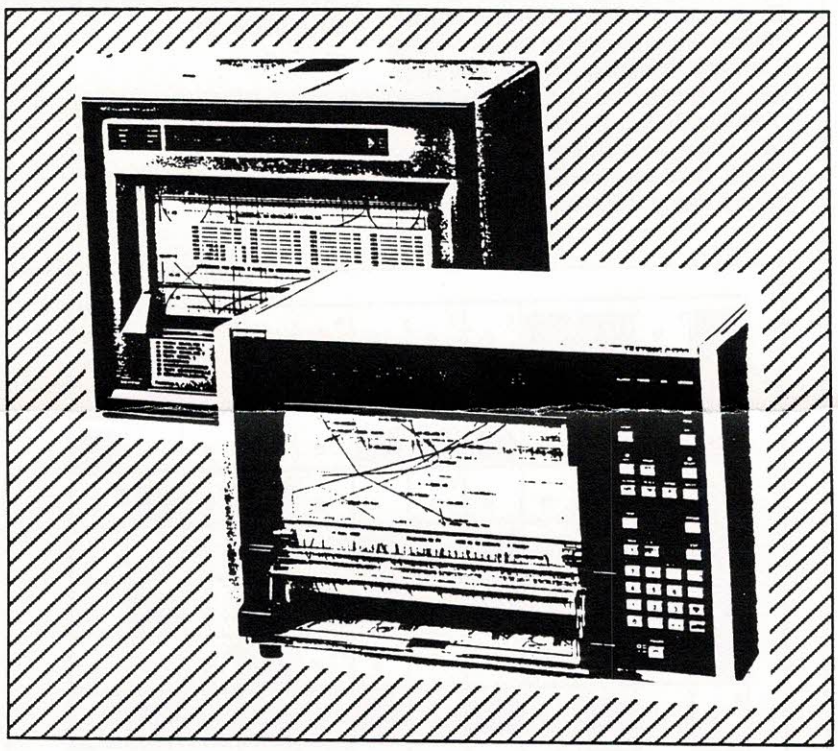
EXLOG®
A Baker Hughes company

NEWSLETTER

FEBRUARY/MARCH '89 *Europe/Africa/Middle-East Region*

HARDWARE SPECIAL ISSUE



The Incredible Siemens Chart Recorders

Contents

CROSSWORD PRIZEWINNER 2

TRAINING FOR BRIGHT SPARKS 2

GUBBINS AND GIZZMOS: HARDWARE LATEST 3

MISSION TO SUCCEED: THE STATEMENT 4/5

IN BRIEF

Toutes Notre Felicitations

Congratulations to **Paul Hughes** in our Paris Office who was promoted to **Senior Supervisor** on January 1st. Paul is responsible for managing **Exlog Samega**, and was instrumental in the successful aquisition in 1987; and the continued running of our operation in France. Paul also liaises with the two major French oil companies: Elf snd Total with respect to their international activities.

Geochemical Bonds Severed

As of February 28th 1989 the only Exlog Office-based Geochemistry Facilities are in South America. The Windsor Lab has been sold to **Robertsons Research plc. Dr Alan Rowly, Rick Harding**, and **Martin Wadsworth** from Windsor have already moved to their Llandudno laboratories, and **Mohamed Said** and **Tariq El Azhary** are still in Cairo but working for Robertsons. **Mark Bagge, Paul D'Arcy** and **Chris Strickland** have opted to seek pastures new, and **Eamon Dolan** is working for Exlog Overseas. We wish them all well for the future wherever they are.

Choppers Out: Forus

February 13th marked the end of an era at **Forus**, Stavanger's principle heliport for offshore Norway. From now on all helicopters for the Southern area of the Norwegian Sector will be departing from **Sola**, the international airport. Forus heliport is closed - and we in Bergen don't believe that there will be any sad feelings about the loss of yet another taxi ride.

Lena Franzon.

Hardware Schools

Have You Been Hardware Trained?
Do you know the difference between A.C and D.C power?
How can you test a sensor out using just a multimeter?
Why does your chromatograph base-line step?
Want to know the answers?

Well, the answers to these and more, are currently being taught in Hardware Schools held every Wednesday and Thursday in Windsor.
If you're interested, whether a budding young whizz kid or a laid-back Gemdo, get in touch with: Simon Leary, James Tidey, or myself, Mike Richardson, in Windsor.

Coming soon, Siemens Multireg Chart Recorder Schools, for those wondering how to cope with all this new technology? Again, get in touch for details of a one day school.

Mike Richardson

Pressure Schools

March : 28th to 31st
April : 25th to 28th (was 18-21)
May : 16th to 19th
June : 6th to 9th

Wireline Log Analysis Schools

We apologise for the recent dearth of these schools. They will be re-introduced as soon as we have been able to work on the material and generally update the course. Please bear with us and keep in touch with the Training Department in Windsor and your Operations Supervisor.

Martin B Saunders

The £50 Prize Winner Is....

The results are in! After months of careful cross-checking and thousands of man-hours of detailed research into the number of three lettered words which can be given in answer to the clue "Muddy Things" we are happy to announce the contest winner.

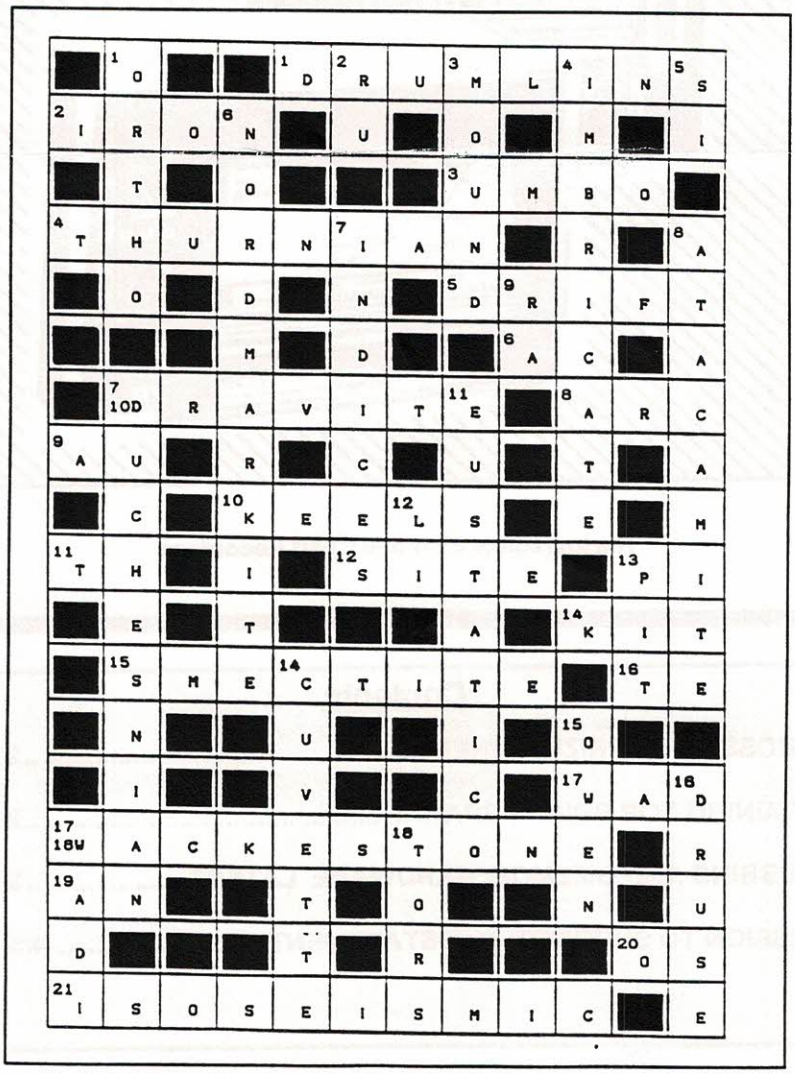
But before we do let's consider a few of the stumblers that wreaked havoc amongst the contest entrants. Perhaps the most common errors were to be found in the naming of chemical elements. As compiler of the crossword I apologise for sticking in all those two letter abbreviations of various radioactive elements; but they were too tempting to avoid, and many of you seemed to glean the correct answer from the given clues without too much difficulty. Another key problem area was clue number *16-Across* "Semi-metallic element associated with skiing and mining town in Colorado". I'm sure that this one didn't roll off too many tongues without careful guesswork. But for those of you who have heard the song Smugglers Blues "They hid it up in Telluride" ;"*Te*" would have done the trick.

Some debate has been raging over the cross Atlantic spelling of "Duchesnian". Sorry, but the source of this answer was "The Penguin Dictionary of Geology" printed and published in England.

As for the winner, we must all applaud **Mr. D. B. de Hauteville-Bell** who quickly handed in an (almost) perfect crossword (with only one minor mistake) and who now collects the prize of £50.00.

Congratulations Dominic and we'll see you at the pub!

Tony McAloon



Equipment Update

Since last Summer, several new pieces of equipment have been purchased for evaluation and inclusion in the new generation of units. Some of you may already be familiar with these in the field, since they are creeping out to existing units currently working in the Aberdeen, Windsor, and Bergen areas; or you may have been lucky enough to attend one of Mike Richardson's Hardware Familiarisation Schools in Windsor.

As some of you may be aware, in the new units (of which U.230 was only a 'halfway house') the engineering panels and the barrier box have been replaced by two new panels,each containing a series of interchangeable cards. These will drive a new suite of two-wire sensors, which are currently being evaluated in Windsor. The gas equipment is also due for redevelopment, but more on that new system at a later date.

Anyway, here are a few lines on some of the new equipment.

STEC Hydrogen Generator OPGU-1500

Another instrument that has been under test in the repair centre since the start of December 1988. This Japanese model is pneumatically similar to the GE/Varian - how else would you generate hydrogen! However, it does have several up-to-date and useful features.

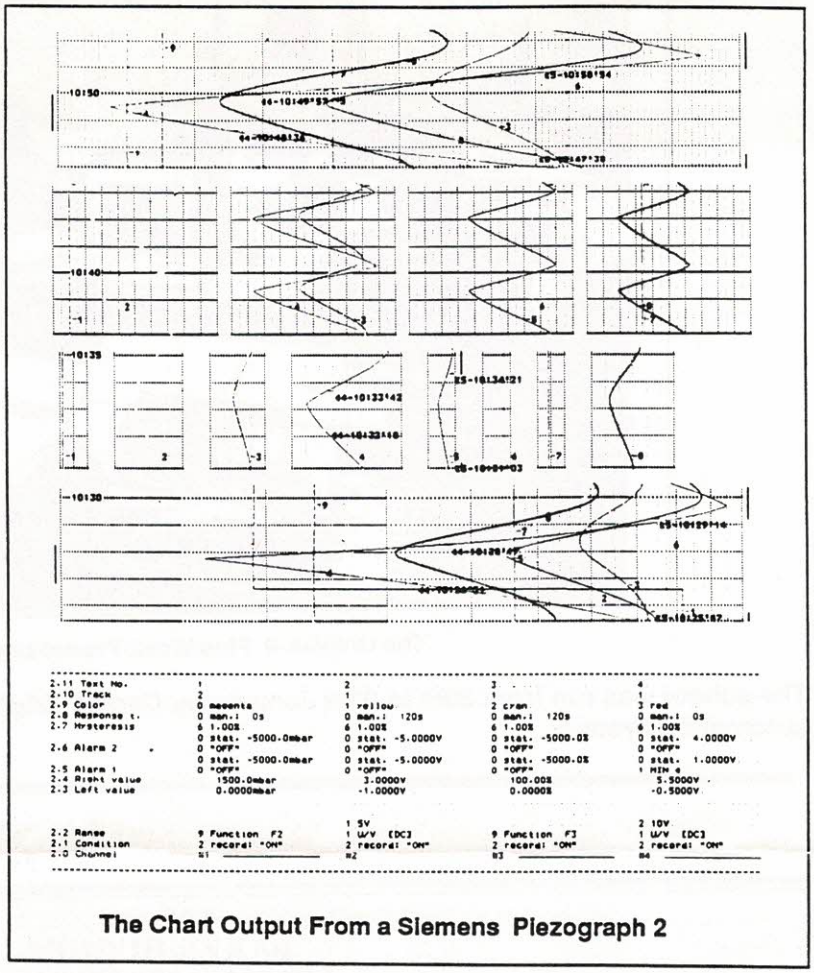
If less than pure water is put into the system, then the instrument switches the control circuitry off, and tells the operator of the problem by the front panel display. On here the operating pressure is displayed, as well as the cell voltage at the touch of a button. Should the cell die then this condition is also shown. A series of codes can also be displayed to enable fault-finding. The generators are being shipped in pairs to units, which can't be a bad idea, so far they are problem free!

Purite Dioniser

The hydrogen generator's requirement for pure water is provided by this piece of equipment. It is another badly required upgrade, in that this instrument will deionise rig water to less than 0.2 µS/cm, so there should be no excuse for feeding the STEC anything but the best, and also it's goodbye to the Analar water!

Hewlett Packard HP3396A Integrator

Some of you maybe familiar with the HP integrator used on some units, and this is the natural follow-up to that instrument. It is simple to program and takes the hard work out of the chromatograph analysis. The instrument is triggered by the chromatograph at the beginning of each cycle, switches off automatically at the operators preset setting, and after each chromatogram the values are tabulated.



The Chart Output From a Siemens Piezograph 2

Siemens Multireg C1732 Chart Recorder

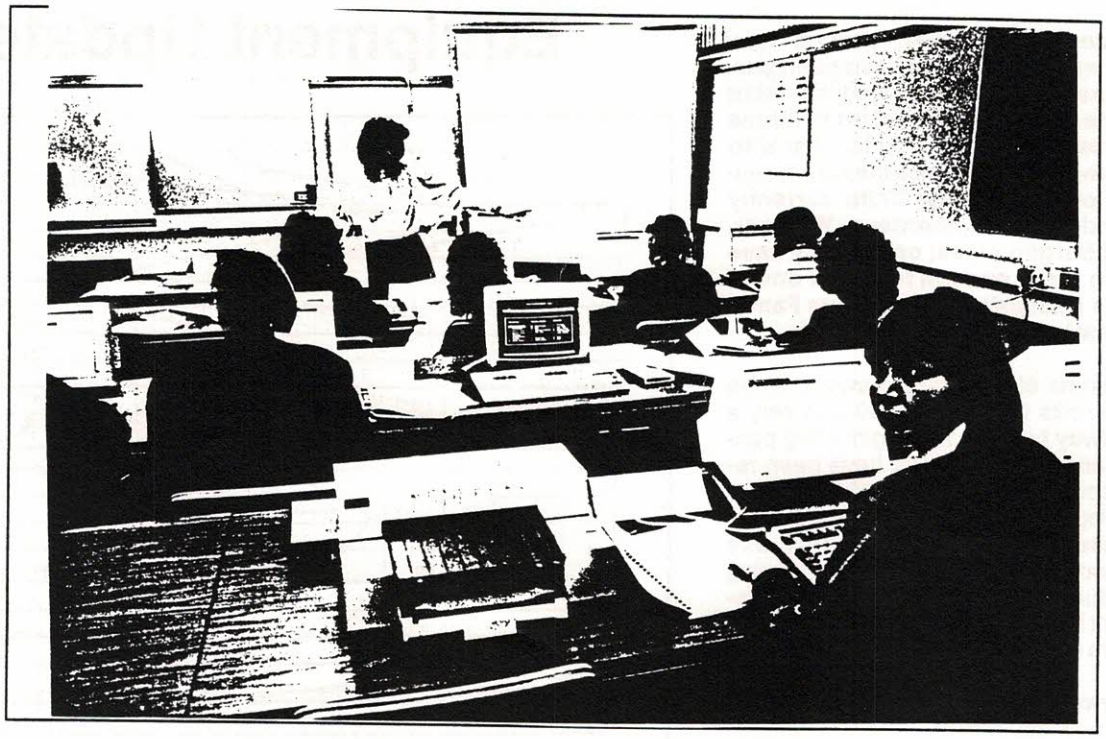
This state-of-the-art hybrid recorder from the Siemens Group records and displays up to 32 parameters in seven colours. The measured values can be displayed graphically or numerically, with the chart speed being selectable from 3 to 600 mm/h. The time and amplitude grids are printed at the same time as the graphic plot, with the ink being sprayed *from behind* the paper.

The chart can be divided into up to eight variable track widths. Each track can be assigned its own scale graduation, and the chart can also be set to display only selected parts of the signal range. The date, time chart speed, channel number, text or value, scale, are all printed out on the chart during recording, along with an alphanumeric table showing parameter values at selected intervals.

This is a fine instrument, granted a little daunting to novice operators, but given instruction and time it is easily mastered! The recorder is also intended to be used in another way, but you'll have to wait for news on that! Currently, one has been under test since 7-12-88, and several are out in the field, particularly in Italy. If you fancy a look at this little beastie, come to the Windsor test/repair centre!

These are just four of the new instruments currently being used by Exlog in the new system development, more are on the way, we are even looking at a new mud weight system!

If you fancy a look at the new gear, pop into the repair centre in Windsor.



The Uniplex-II Plus Word-Processing School Windsor

The school was run from 30th to 31st January by Denise Bright from Sphinx Ltd. on the new office automation system.

BAKER HUGHES
MISSION STATEMENT

The Company's mission is to generate increasing value for its shareholders, customers, and employees through its role as a leading worldwide supplier of quality goods and services.

STRATEGIES

PEOPLE - Provide a challenging and rewarding environment that creates an opportunity for all to realize their full potential, while contributing to their company and community.

MARKET - Achieve and maintain leadership positions in the markets served by anticipating and reacting quickly to changes.

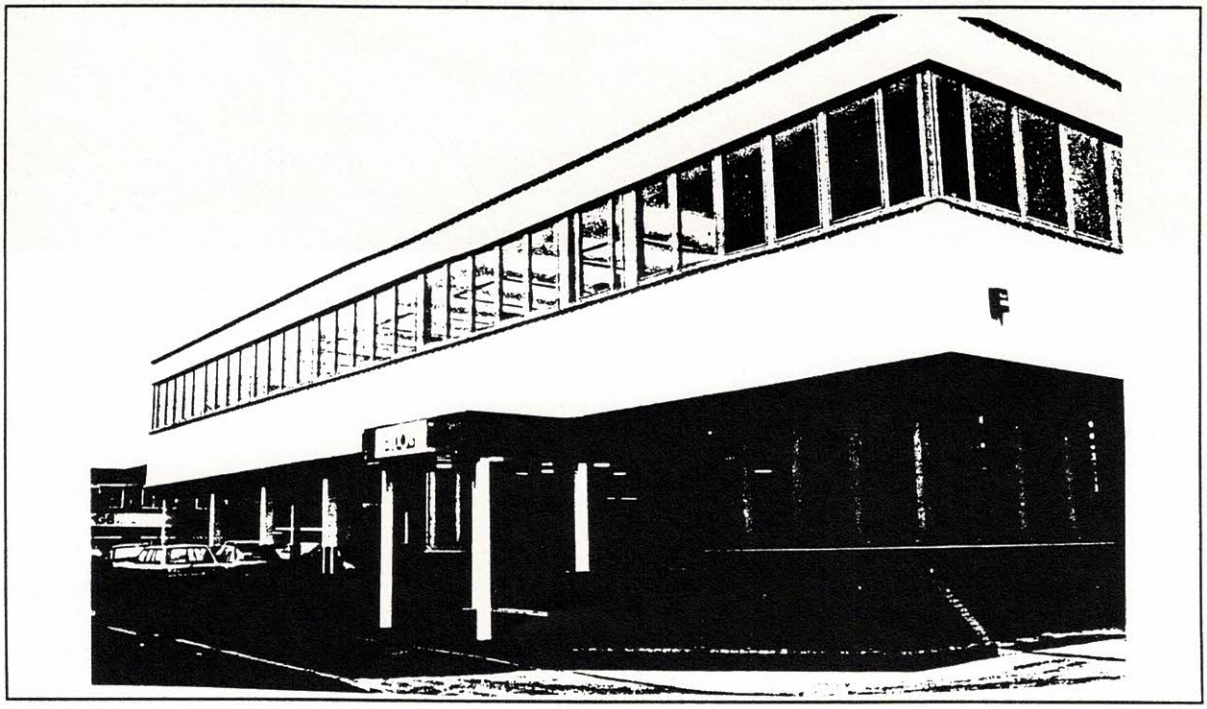
GROWTH - Maximize the use of market, technology and people strengths to generate internal growth, and make acquisitions that accomplish the Company's mission.

TECHNOLOGY - Develop technical superiority through aggressive customer-focused research and development, emphasizing products that improve our customers' economics.

FINANCIAL - Maintain a sound financial base while achieving rates of growth and returns on investments that rank among the highest in the industries served.

"Mission Statements"

Exlog and Baker Hughes have recently revived the "Mission Statement" ; we have included a copy of both in this issue for your general edification.



A Photographer's Impression Of The New Building In Windsor

Until we can get a floor-plan for you the following directions will have to suffice:

As photographed

Ground-Floor:
Reception left
Training Room right
Toilets for the Disabled and Ladies
Software and Final Well Reports
Technical Library

First Floor:
Admin- Left (East) Front
Comp Logs- Centre Forward
Operations- Right Flank
Training -Right Back
Baker -Back Row

EXLOG

MISSION STATEMENT

"EXLOG, Inc. provides a wide range of geological and drilling information services and equipment that meet the needs of the world-wide energy industry for the efficient evaluation, management, and control of drilling operations.

Qualified and responsive people, combined with technologically superior products, are key in our commitment to quality performance for our customers and shareholders."

EXLOG®

REGIONAL NEWSLETTER
EUROPE AFRICA MIDDLE-EAST

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Distribution from Aberdeen, Bergen, Windsor.

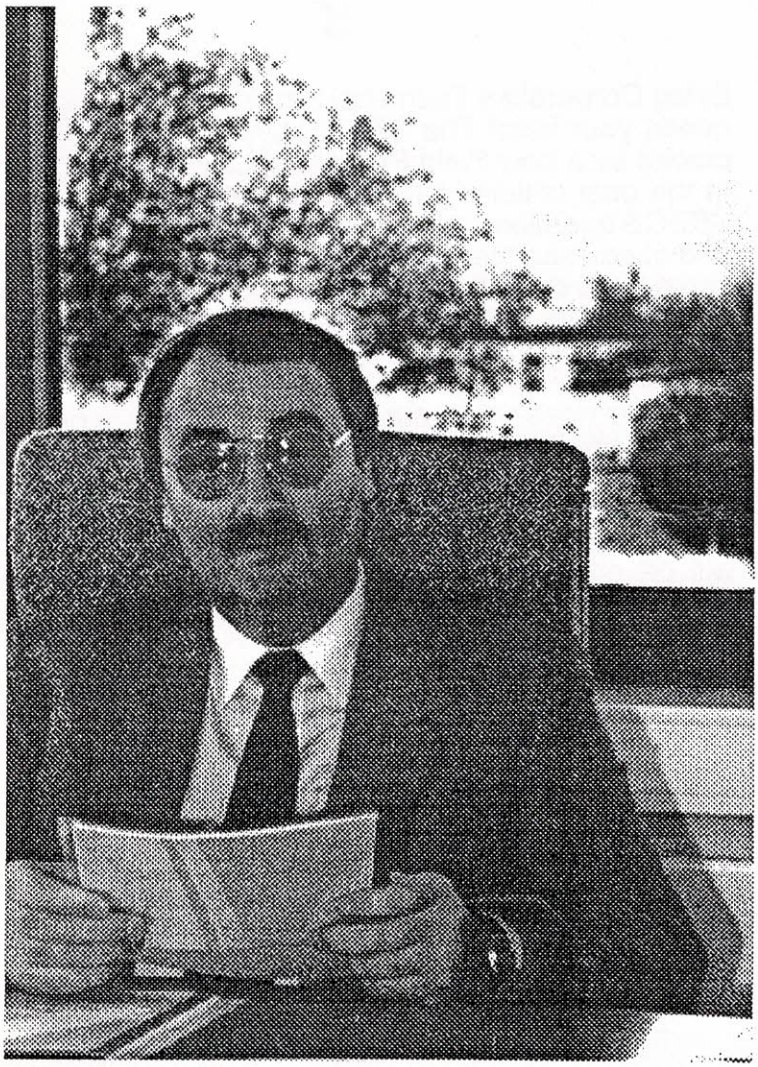
FILE

EXLOG® A Baker Hughes company

NEWSLETTER

June/July 1989 *Europe/Africa/Middle-East Region*

The Final Kirton!



Peter Kirton Preparing to Hand-Over to Ric Ashton.

From sieve and spoon to bucket and spade, from tinnies to tubular goods ! Peter J Kirton has been promoted from Regional Manager of Exlog Europe/Africa/Middle East to the position of Vice President Eastern Hemisphere with Baker Sand Control. Pete's immediate boss will be familiar to those of you who worked with him during his time with Exlog; the Senior Vice President of B.S.C. is Tim Probert. There is no doubt that years of bagging sand with us has qualified them both to control it; Pete's first task will be to travel the globe counting it.

Continued on Page 3

Per Ardua Ad Cavalier SRi

Office promotions announced as of July 1st 1989: **Simon Leary** to Supervisor; **Lena Franzon** to Operations Specialist; **Kjetil Hoyvik** to Q.A. Technician and Tech.Librarian; **John Jeffs** to STR 2; **John Page, Adrian Peace, Paul Bond, John Allen, Phil Hogan, S.Naffie, T.Barakat,** and **I. Kellman** from Engineer 2 to 3.
Congratulations to all of them.

Contents

New Moves in Windsor..... 1
July Honours List..... 1
Share Out..... 2
Testing Times for Training..... 2
Training Times..... 2
Wimbledon in West Africa? World Service Frequencies..... 4

EXLOG®

REGIONAL NEWSLETTER
EUROPE AFRICA MIDDLE-EAST

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Editor **Mike Saunders**

NEXT ISSUE

Final Copy Deadline 30th August
Stop press 15th September
Distribution from Aberdeen, Bergen, Windsor.

Veterans of Exlog Singapore!

Are you interested in a reunion in the U.K.? If you are please ring E.Bowles (now with British Gas) on:– 01 723 7030 extn. 1579 for details.

Bi-Monthly Newsletter League–Table

Source	No Of Contributions
Windsor:	2
Corporate:	1
Field:	2
Aberdeen:	0
Bergen:	0
Other:	1

Stock Up Now !

In their 20th April issue of *"Drill Bits Weekly"* Kleinwort Benson Research describe **Baker Hughes** as " The ultimate in joint ventures...benefits from the merger: the major cost savings are over, but the synergies are not..." they go on to highlight the potential for MWD to complement bit development and to say:" It is the market leader in drill bits...completion tools...**mud-logging** and in sand control. Their conclusion for potential investors is...
"BUY" (at $17.625 in April).



Exlog Corporate's Technical Services Section in Houston needs your help! The SPECS system will shortly be replaced by a new Field Personnel Development Plan.
In the past criticisms have been levelled at some of the SPECS questions, accusations of ambiguity, irrelevance, and obsolescence. Now is your chance to prove that you could have done it better! You are in the perfect position to know what needs to be taught and tested in order to ensure that the evaluation really tests our crews on what they actually need to know.
Tech. Services have courageously thrown down the gauntlet and offered to accept questions on any aspect of our business. They only need a thousand or so. Send in your suggestions, no matter how rough, and tell us at what stage you think that the question should be applied. A prize will be given for the most prolific contributor, and the drollest question. Send your entries to Mike Nicholson (Regional Personnel Manager) in Windsor.

TRAINING PROGRAMME

OFF SCHOOLS:	**Jul**	**17 to 28**
	Aug	**7 to 11**
	Sept	**4 to 8**
PRESSURE SCHOOLS:	**Aug**	**22 to 25**
	Sept	**19 to 22**
	Oct	**10 to 13**
	Nov	**7 to 10**
	Dec	**12 to 15**
BASIC WIRELINE:	**Sept**	**26 to 29**
HARDWARE LEVEL 2:	**July**	**12 to 13**
HARDWARE LEVEL 3:	**July**	**19 to 20**

Note that two day level 2 and level 3 hardware courses will now be run by Mike Richardson on alternate weeks. Some courses will be held in Aberdeen, depending on local demand. Please contact Martin, Simon, or James for details. If you feel that you could help to demonstrate practical skills to new intake in the second week of OFF schools please contact Martin Saunders on 0753 868211

Peter Kirton Continued from Page 1

Peter, an Australian, joined the Perth office in the early seventies and worked as logger, PEG, and early GEMDAS operator in the Far East. By 1981 he had progressed to Technical Support Manager of ELSL in Windsor. In order to support the booming North Sea MWD market Pete was transferred ELNS in Aberdeen to run it from the Bridge O'Don office (since closed). In 1986 he replaced Keith Morley as Regional Manager, still based in Aberdeen. In late '88 the Regional Manager's office was moved to Windsor.

Peter Kirton was highly regarded in the company for his high profile, plain speaking, and obvious concern for those with whose welfare he was charged; the photograph shows Peter leading from the front (as usual) in the new Windsor building with Windsor Castle just invisible in the background; doubtless similar but reversed pictures are taken from the castle. Throughout all this time Pete has been supported by his wife Lisa, and children . We wish the Kirtons all the best in their new home in Houston. Peter has been succeeded by **Ric Ashton**, who we will be introducing in the next issue.

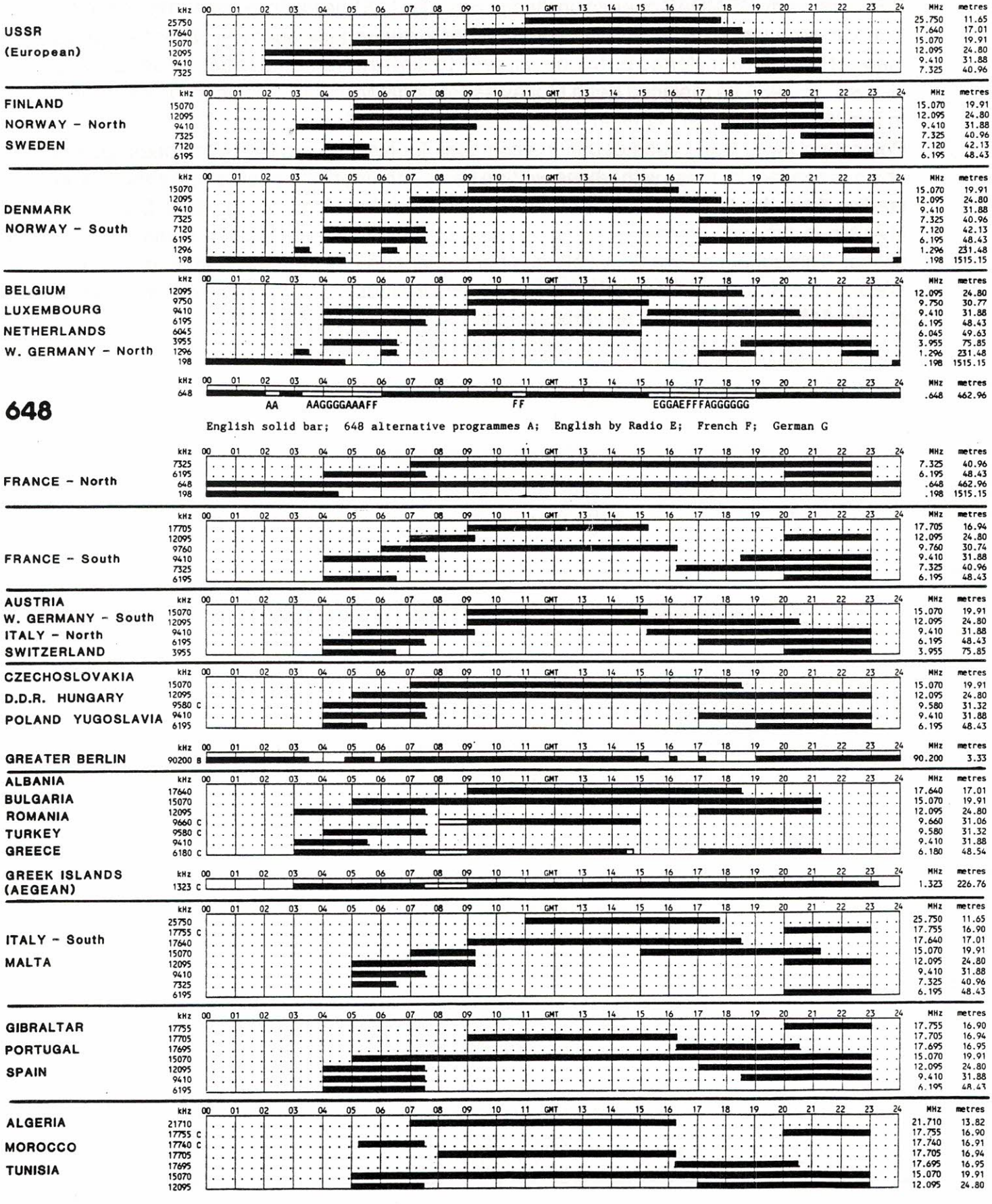
FREQUENCIES

BBC World Service reception quality can be variable, so it is worth trying different frequencies to improve your listening. Lower frequencies generally give best results early in the morning and late at night, higher ones in the middle of the day.

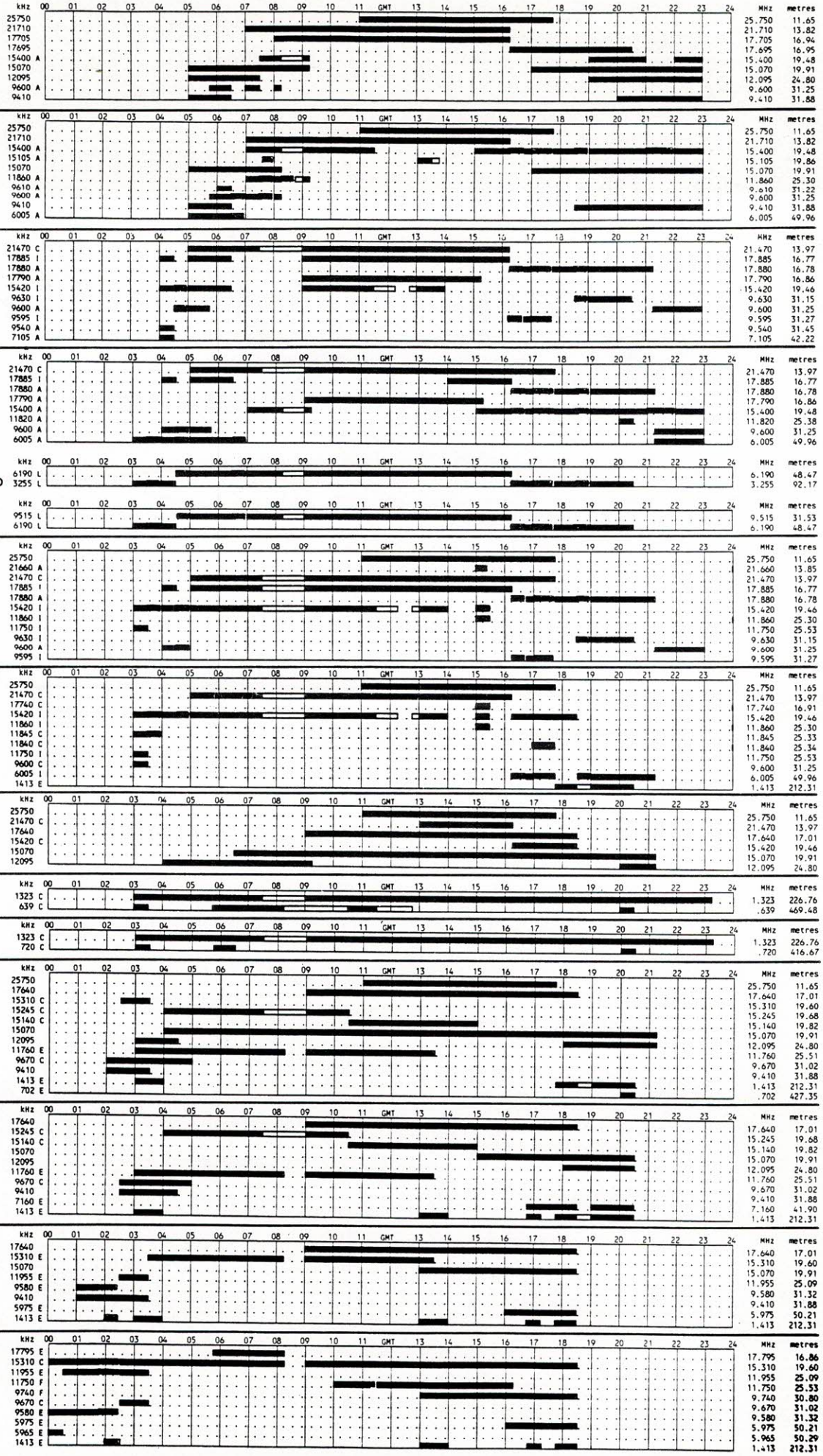
BBC World Service broadcasts direct or via relays using the frequencies given below, but some listeners can also hear its programmes rebroadcast by their local radio stations.

RELAYS
A Atlantic B Berlin
C East Mediterranean
E Eastern F Far Eastern;
H East Asia I Indian Ocean
J South American
K & S North American
L Lesotho W Caribbean

TRANSMISSIONS: ■ Daily ■ Alternative ❑ Non-daily



FREQUENCIES



ALL TIMES GMT



EXLOG® NEWSLETTER
A Baker Hughes company

AUG/SEPT '*89 *Europe/Africa/Middle-East Region*

Ric Ashton Joins EAME Region.

(see News in Brief)

No Norwegian Blues In Bergen–Old Faces in New Places.

A letter from Erik Fristad.

It has been a time of many personnel moves recently in Exlog Norge. We have just had the pleasure of meeting **Ric Ashton**, who replaced **Peter Kirton.**

Matthew Kirkman has left us to take up his new position as MWD Product Manager in Houston. I know we are all going to miss him, but many of you will maintain your contact with him through your work. Matthew has promised to visit us in Bergen frequently to keep us posted on new developments in MWD. This is part of Exlog's commitment to becoming a strong force in the MWD marketplace.

Obviously it is very hard, nearly impossible, to replace Matthew with his unique knowledge of all aspects of Exlog and the Norwegian market. The new organization of Bergen will therefore be as follows:–

I will assume overall responsibility of managing the Exlog Norge office, but on a daily basis his work will be Finance and Administration. In this new position I am looking forward to maintaining the good working relationship we already have here at Exlog Norge. My biggest task will be to make Exlog Norge more profitable, and to acheive that I will need the support of all of EL Norge's employees.

Continued on Page 2

NEWS IN BRIEF

Read The F♦RUM!
Ric Ashton *Featured in* F♦RUM !
Peter Kirton *Featured in* F♦RUM !
Simon Leary *Featured in* F♦RUM !
Ralph Steen *Featured in* F♦RUM !
John Shields *writes for* F♦RUM !
Overseas Field Personnel Meeting *Featured in* F♦RUM !

Contents

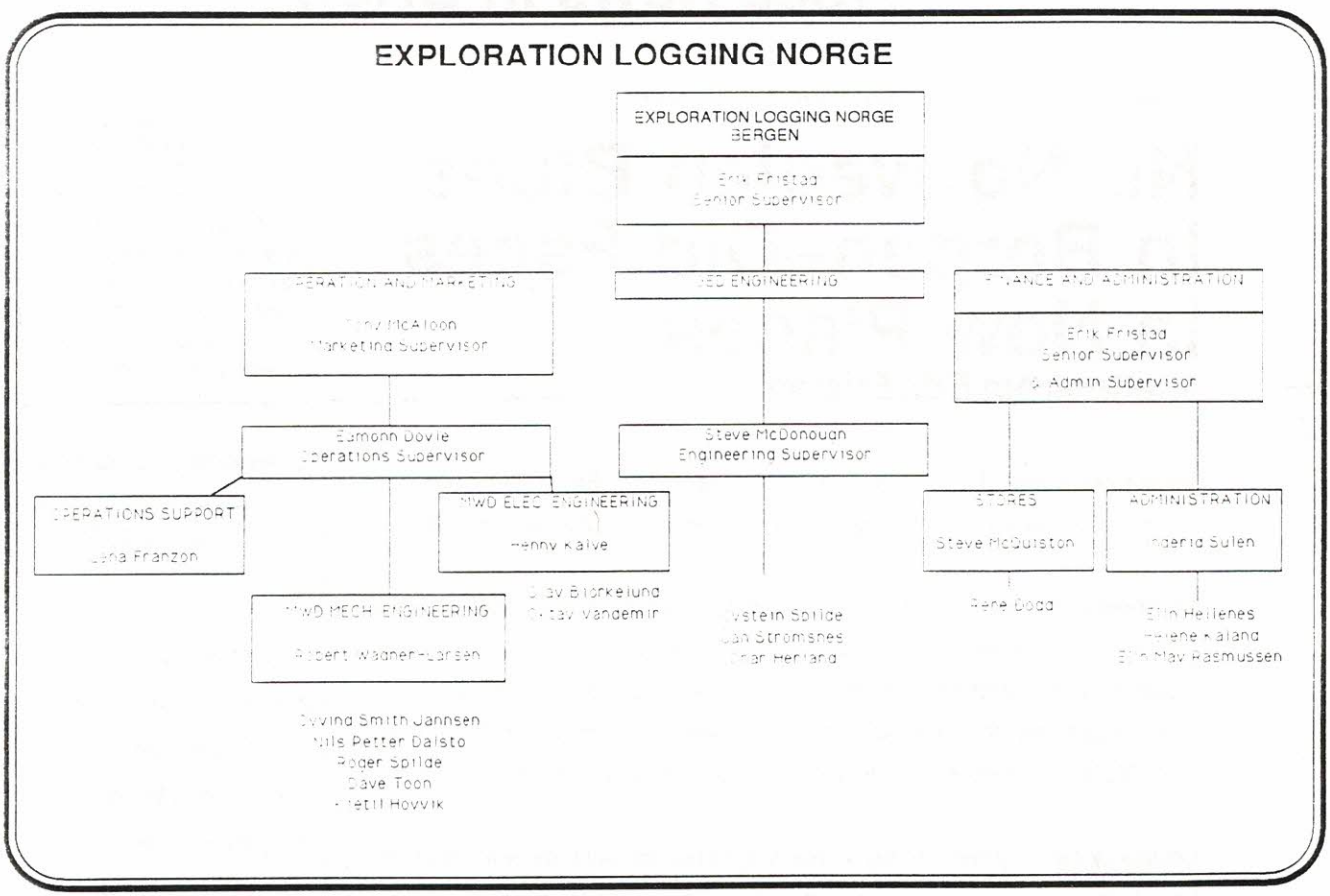
Office Moves in the region
Bergen reorganisation
Quality assured
Reporting to Windsor
More new faces
Training schedules
Listening to the world
Bit Supplement: making the grade

Cost control is one thing, but to really secure our future they need to make clients depend on ELNorge to deliver superior service. Erik is confident that this can be achieved by continuing to work as one big team.

To bring the message to their clients, they have now secured the help of Tony McAloon. Tony will transfer to EL Norge from marketing for Exlog in Central London. His primary function will be Marketing Supervisor.

Please refer to the attached organogram which gives a more formal view of the new organisation.

Erik Fristad



QUALITY ASSURANCE FOR EXLOG: "GETTING IT RIGHT THE FIRST TIME"

by Mark Fielder

You may have recently seen a copy of a document entitled "Quality Assurance Manual". This document has been given to all units and all relevant personnel throughout the Europe/Africa/Middle East region.

You may say, but what is Quality Assurance; and why do we need a manual?

Quality Assurance can best be described as a method of ensuring that we give our clients a product or service that offers "fitness for purpose and value for money". I am sure that you will agree that this philosophy is applicable to all areas of business and a large number of UK companies are actively seeking registration to the International Quality Standard **ISO 9000**. It is the intention of Exlog to pursue approved status to this internationally recognised standard.

It is important that the system we install within Exlog meets the ISO requirements; but more importantly ensures that we control all aspects of our business. Obviously with safety and quality becoming, quite rightly, more important, clients will be looking to Exlog to supply evidence of our commitment to all aspects of quality. This is the first reason for the Quality Manual.

The second, and more important, reason is to have a documented system which works for us. It should enable us to carry out our work, in all areas of the business, with the objective of "getting it right first time". To aid this, the system will involve periodic audits of all areas of the company which will look at the way we work and allow any necessary improvements to be implemented.

Internal audits of the quality system will be performed by myself and I hope to meet as many of you as possible in the near future. Audits of the service in the field will be performed by **Stuart Pressage** who is based in Windsor and will be making contact with all regional offices shortly. Stuart and myself will be working together on all aspects of quality to ensure that any changes made reflect the requirements of both field and office staff.

The system will also aim to improve communications between all departments which, I am sure you will agree, is very important for a company such as ours with operations taking place in so many areas.

So that is the purpose of the Quality System. The manual has been issued so that we have a set of basic procedures from which to work. The manual is a dynamic document which can be easily amended to reflect the changes in our working practices. Please take time to read the manual and pass on to the regional office any comments so that the quality system can be made to work for the good of Exlog.

We must all become committed to quality if the objective of "geting it right first time" is to be achieved.

I hope this brief introduction to quality has been able to explain the main reasons for the system being introduced but if you have further questions, or would like more information on quality assurance then please contact Stuart or myself at the Windsor office.

EXLOG®

REGIONAL NEWSLETTER
EUROPE AFRICA MIDDLE-EAST

Produced on behalf of:–
EL North Sea Ltd., EL Overseas Inc., EL Italia, EL Samega, EL Norge, EL Netherlands, EL Egypt
by

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NEXT ISSUE
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30th October
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Final Well Report Production - Windsor Office

The Windsor region is currently processing in excess of **100** Final Well Reports each year, and a number of minor points would enable us (Alastair Doyle, Neal Weston and Tim Jones) to complete the reports in a more timely manner.

1. PLOTS- XLBASE or PENPLT.

a. LINE TYPES. Please ensure that all plots that contain more than one data item in a track are plotted with different line types, i.e. use a solid line for one data item and a dashed line for the second. If a third or more items need to be plotted in one track then use any of the other line types that are available in the system - the HP7475 will support up to 6 different line types. The reason for requiring the different line types is that all plots unless specified by the client are reproduced in **black and white**, either by photocopying for single A3 sheets or, for the current XLBASE Mudlog and Pressure Log suite, by plotting directly onto film. We have these copied as a continuous copy onto dyeline paper or sepia film.

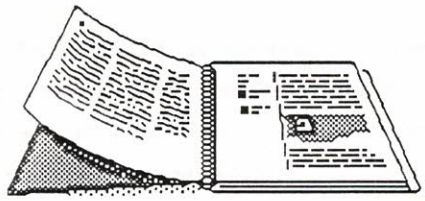
b. For all **ELOS PENPLT** outputs that make use of the LITH program for plotting lithology, please make sure that a **lithology key** is included.

c. There should be **no** need for you to try and produce **multiple copies** of the plot suite or logs at the wellsite. We require that you return one complete master plot (spliced in the case of the XLBASE Mudlog etc.) and we then arrange for the clients' copies to be produced by a professional copying service, either by photocopying or by dyeline. If multiple coloured copies are required, which is fairly rare, we can have the coloured master reproduced by Xerox.

2. FINAL WELL REPORT.

a. Drilling and Engineering section. Please do not simply reproduce a series of disjointed statements taken directly from the IADC reports. Please try and make the report **factual** and also **readable**. If you read it through yourself and have trouble staying awake then there is little chance of the client faring better.

b. Geology and Shows. If this section is divided on the basis of cuttings variations or true formaton tops, check these data values with the Wellsite Geologist at the end of the well before submitting the report. If TD E-Logs radically alter



previously defined tops, make sure that any sections already written (ie. descriptions and gas values) tally with these new tops. We have had cases recently where the formations on the logs do not even agree with those described in the report - please take care.

c.Depth Matching: Please ensure throughout the report that the end of one section tallies with the start depth of the next section - they frequently do not. Also ensure that the depth range stated for a particular hole section (eg. "12.25 HOLE SECTION") is the same throughout the report.

d.Consistency: Before finishing the report ensure that one crew member - preferably the Unit Manager – checks the entire report for consistency, spelling etc. before it is submitted.

XLBASE DATA

The majority of the Windsor based units are now using PCs for the production of logs and plots. It would appear from what is being returned at the end of the well that it is not entirely clear what we require in the way of data disks to accompany the logs and plots. We would like the following:

a. A backup of the FULL DATA DICTIONARY from XLBASE. The full dictionary will include copies of the conversion factors, plots formats etc. which you used and are essential if we need to reproduce any of your plots at a future date. Label the disks clearly with the well name, client number, type of backup and also the version of XLBASE used. This will on most units at the moment be vl.22, but in future and as bugs are corrected, we will release v2.0. The vl.22 databases are not compatible with v2.0 databases so it is essential that we know the version to enable us to restore data into the correct version of XLBASE.

b. A copy of the lithology symbols used. these are all contained in the directory XLBLITH and can be copied to floppy disk using the following commands:

Format a floppy disk using the FORMAT command

```
C:\>FORMAT A: (return)

C:\>CD\XLBLITH (return)
change to XLBLITH directory

C:\XLBLITH>COPY *.* A:
(return)
```

copies all files in XLBLITH to floppy.

c. A copy of any tables produced in FORMTOOL (eg. Bit Data Tables) These can be selectively copied to a floppy disk using the same technique as detailed above, but selecting individual files rather than the entire contents of the directory.

d. Copies of the Final Well Report produced 8 in 1.

Two copies of each of the above disks is preferred in case we have difficulty reading a disk due to corruption or damage.

PRODUCT ACTION REQUEST FORMS -PARs

Since May/June 1989 **P**roduct **A**cton **R**equest forms have been available in all Windsor based units. The forms, as most of you should be aware, are designed for you to document technical requests directly to Corporate in Houston. To date response to the system has been very good and Andy Morley, who is coordinatng the system, is very pleased with the input, but to quote "We still don't have enough authors and would like to see more input directly from he logging units." Andy also states that "We would like to emphasize that Product Action Requests may be submitted on any product or application that influences our business." That means that they are not restricted to only software problems and ideas but also to hardware.

If you need replacement PAR forms or do not have any in your unit, they may be ordered on the inventory by requesting p/n 27717.

Thank you for your help regarding these matters.

Alastair Doyle/Neal Weston/Tim Jones

JOBS FOR THE BOYS (AND GIRLS)!

This summer over 40 new employees have successfully passed through the OFF school in Windsor, and we (Martin and Mike) are continuing to run pressure and wireline schools; in addition to this we are providing in-house training for a number of client oil companies with the able assistance of Dai Barton. John Allen will be running hardware 1 on the OFF school, plus hardware 2, and hardware 3 schools (on his new DrillByte Simulator).

The proposed schedule for forthcoming schools is:-

OFF schools:

30th October
6th November

Pressure Schools:

10th October
12th December

Hardware 2:

16th October
1st November (Prov.)
15th November (Prov.)
29th November (Prov.)

Hardware 3:

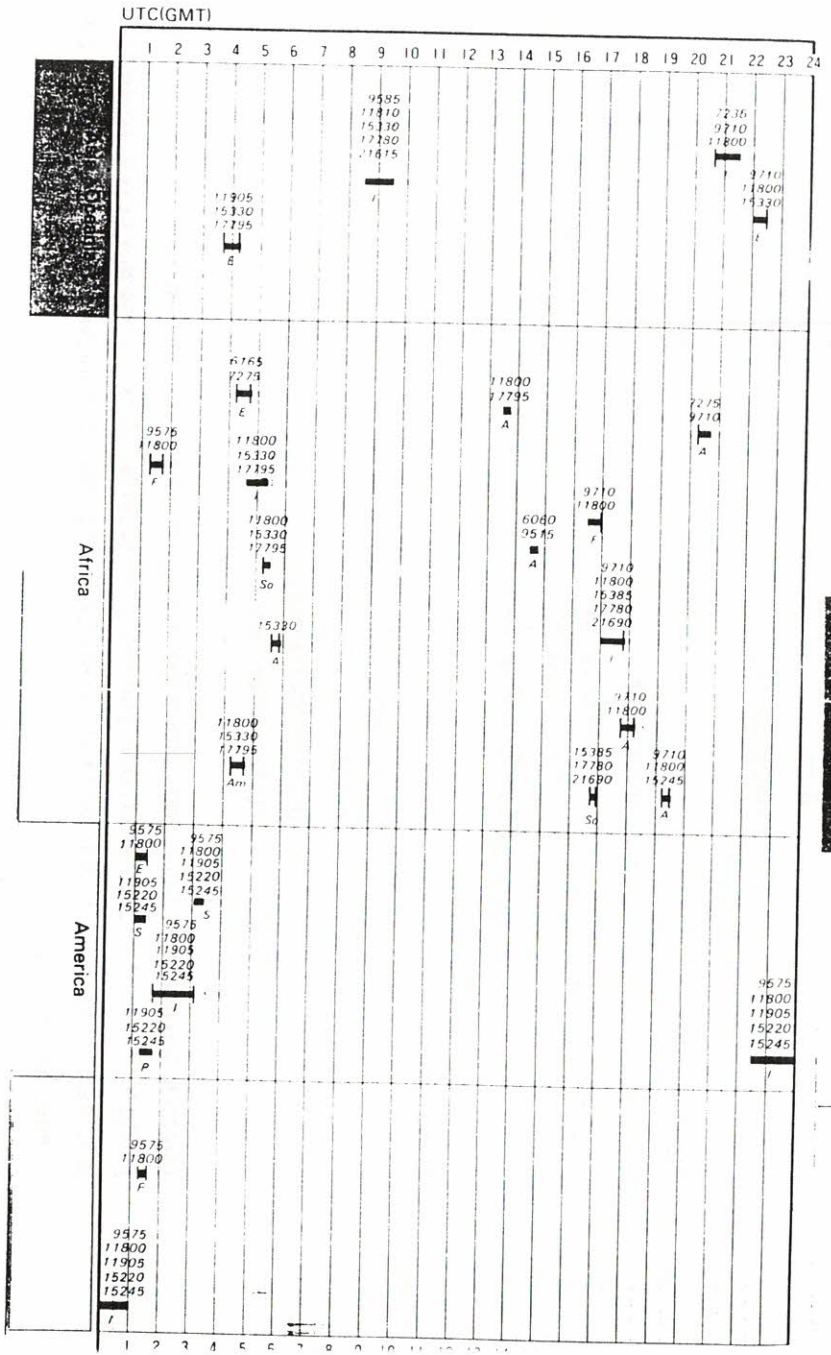
4th October
24th October (Prov.)
7th November (Prov.)
21st November (Prov.)

Owing to the continuing demand throughout the region we are still recruiting actively and will be short-listing for the next OFF schools soon, you might like to pass the word on to any of your fellow graduates who missed us on the milkround (and are still looking for gainful employment). We are always pleased to recieve applications.

Mike Saunders

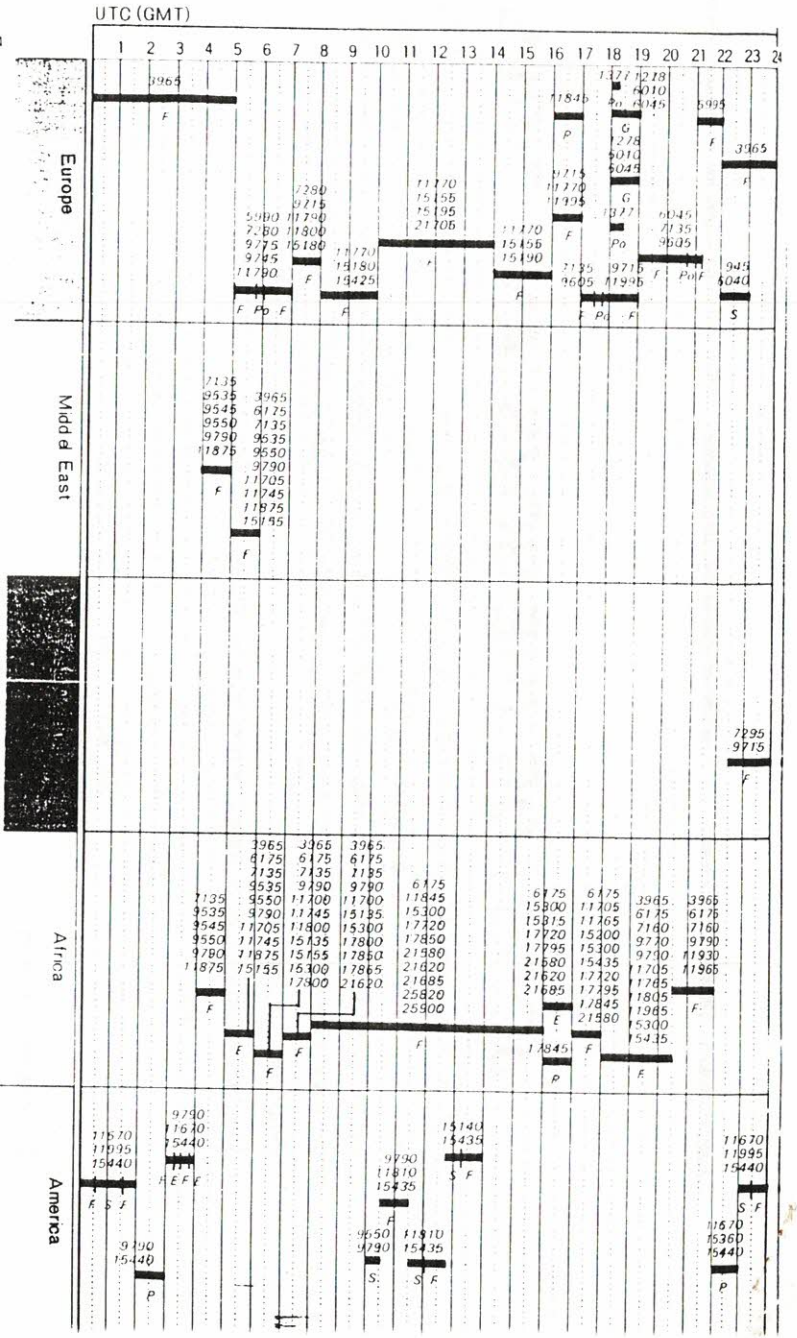
ITALY

- Italian Radio



FRANCE

- Radio France International
- B.P. 9516, 75762 Paris, Cedex 16
- "Ici Paris, Radio France Internationale"
  "Summer Time" seasons are one hour earlier



EXLOG® NEWSLETTER

A Baker Hughes company

OCTOBER/NOVEMBER '89 *Europe/Africa/Middle-East Region*



From Left: El Swefy, Attia, Wazir, Kamal, Daoud, Ric, Youssef, El Banan, Sammaria, Nagaty

NEWS FROM EGYPT, SYRIA AND SUDAN
by
Karim Loza

Thirty two field personnel from the Egypt, Syria and Sudan operations met, for the third time in 1989, in Cairo on October 31st. The purpose of the meeting was to enhance the well-established communication between the field personnel and the Cairo office staff.

The day consisted of a presentation from Gamal Moussa on the field personnel development and training program, the administrative details of well reports, invoicing, expenses, revenues and company profits. (Continued on page 2)

Contents

Egypt goes from strength to strength..... 1
Seacrest..... 1
Computer Games are catching on..... 1
Chris Fletcher hits the ground running..... 2
Ric's Regional Update..... 3
How not to hold your tong..... 4
The biter bit - bite back..... 4
Training Places - all for one and one for all?..... 5&6
Health and Safety News - time for action..... 5&7
Behind the scenes in Bergen..... 8
Festive Competition (Win over £35,000!)..... 10

"SEACREST"

Most of you will be aware that on Friday November 4th, at about midday local time, the drillship "Seacrest" was lost when Typhoon Gay struck the Gulf of Thailand. It had been drilling a well for Unocal about 50 miles offshore. An Exlog Unit was on board, manned by Unit Manager Jim MacDonald; the other members of the crew had gone ashore the previous day. Jim and 96 other people lost their lives. Some of you may also remember Unocal's Chief Development Geologist, John Nolan, an ex-Exlogger who was also lost. On behalf of all of us we extend our deepest sympathy to the families of both men.

"COMPUTER GAMES"

A recent directive for Norsk Hydro highlights the growing menace from computer viruses.

The N.H. offshore PC systems have recently been devastated by "data viruses" brought on to the rig in "entertainment software".

A. Appjell of Norsk Hydro issued a warning to all NH employees and subcontractors to the effect that no computer games were to be installed on any NH computers on- or offshore; and that any person or company found to have caused infection would be held liable for the full cost of the clean-up and restoration.

APOLOGIES

Apologies to readers and especially to Branka Obradovic from the Editor. The last Newsletter was thrown together in such a tearing hurry (prior to yet another overseas training jaunt) that by the time the Editor was forcibly ejected from the building the newsletter was by no definition ready to "go to bed" as we say in the trade. Anybody with experience of putting children to bed will appreciate the problem. A last minute transposition of tense and person in Erik's contribution was incomplete, and so it stayed.

I would like to take this opportunity to apologise to the readers for the execrable prose and to Erik and Branka (writer and typist respectively) who last saw it in perfect form; before it was "edited with extreme prejudice", as we used to say in the service.

EXLOG®

REGIONAL NEWSLETTER
EUROPE AFRICA MIDDLE-EAST

Produced on behalf of:-
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NEXT ISSUE
DECEMBER/JANUARY 1990

Final Copy Deadline Windsor:-
10th January 1990
Stop press:-
20th January 1990
Distribution from Aberdeen, Bergen, Windsor.

Aziz El Kerm presented a new standardized mud log for Shell/Al Furat in Syria; and Abdel Hamid Aly discussed the Final Well Reports formats, computer virus, illegal copies and application of newer versions of EAP-PC, XL base, CML and VIP.

Karim Loza discussed the safety, new sensors, new equipment, engineering reports inventories and new units.

This dialogue and exchange of ideas helps the company's efficiency and support to the field resulting in a better and professional service to our clients.

Syria has seen an increase and expansion in activity to between 9 and 11 units, mainly with Al-Furat which utilises 4 to 6 ex-Corelab FL units. Marathon uses 3 Alfa, Rig Scan, VIP and EAP-PC units and ELF uses two Data Logger and DL/Rig Scan units with VIP, Siemens recorders, mag flow, nuclear density and Foralog.

The increase in activity is expected to continue in 1990, besides the above secured contracts there are still a few outstanding bids with SPC and other oil companies.

Egypt is maintaining its stable four to six contracts as well as a basic unit in Sudan drilling for Sun Oil.

In mid-November the operations were visited by Ric Ashton who started the first Exlog office in Cairo in 1976. He visited the major operating companies based in Cairo and he also visited the free-zone facilities.

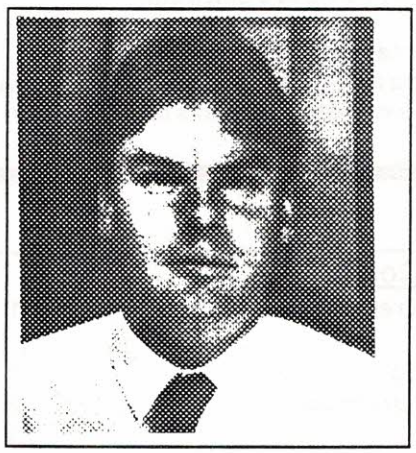
The opportunity was also taken to hold a reception for the visiting Exlog personnel at Gamal's place.

NEW MAN ON THE GROUND IN LONDON

Chris Fletcher has recently been appointed as Marketing Superintendent in London.

He comes to the job from the consultancy group, having previously worked as an Operations Engineer for Shell Expro, in Aberdeen since 1988.

Although born near "Pompey" his parents frequently moved around Europe, not, we are assured, to avoid their creditors, but at the behest of the Military. Chris was thereby admirably qualified for life as a peripathetic



logger. He graduated from Aston University, and travelled with Exlog around most of the Mediterranean, occasionally stopping to log. His work as a WSPE/WSE took him to Turkey and Tanzania, and then to Holland as a production Engineer.

He lists his hobbies as "beach-type games and watching cricket; playing a rusty clarinet, and being fascinated by railways".

He replaces Tony McAloon as "Our-Man-in-Park-Lane" following Tony's move to Bergen. We wish both of them every success.

REGIONAL OVERVIEW FROM RIC ASHTON

Now that the dust's beginning to settle after the recent flurry of management and support staff moves, I'd like to update you on some of the topical subjects that are going on within the Europe, Africa, Middle East (EAME) Region.

Outlook for Fiscal Year 1990

At Exlog we plan our fiscal year from October 1 to September 30 so we are already into Fiscal 1990. During September we reviewed the market and developed our plan which was subsequently reviewed by our senior corporate management. Our region is planning a busy year in general although we can anticipate local activity changes in some countries which will require us to shift our focus as necessary.

From what we hear, drilling projections are also looking positive for most of the other Exlog regions and particularly in Asia, Australia, Pacific (AAP) Region, with its headquarters in Singapore.

"DrillByte"℠ Progress

Of importance to us all is that we are now making good progress in the production of Drillbyte units in Windsor. Our new "DrillByte"℠services are a step forward (long overdue) in technology and will provide a platform for improved formation and drilling data evaluation. Unit 400 is now operating in the North Sea and Unit 85 is in Oman, both providing standard "DrillByte"℠services. Startup problems were quickly identified by the crews and resolved by working in conjunction with regional and corporate technical support; **Al Doyle** has recently returned from visiting Unit 85. Over the next year, many of you will get a chance to see or work in one of our "DrillByte"℠ units and get a firsthand feel for the improvement.

Regional Technical Support

With the emphasis on implementing "DrillByte"℠ Services, we have identified and filled a Regional Technical support role in Windsor. **Peter Hill-Cottingham** accepted the position and was transferred from his previous position with EL Norge in Bergen to EL Services (Windsor) in September. His initial priorities are to establish a training programme for "DrillByte"℠and to coordinate the Technical Support throughout the Region. Peter has taken on a big challenge and has already been on three rig visits to get a firsthand feel for the requirements of the job.

Visitors to Windsor

During the last couple of months we have had a number of visitors to Windsor. They included :–

Clients:-
Elf from Pau - to see "DrillByte"℠.
Conoco from Netherlands- " " " .
Conoco from Houston - to discuss program in Somalia.
Amoco from Houston - to attend a Pressure School.
Amoco from London - to review training material.
Gupco from Cairo - discussions on services and to see "DrillByte"℠.
Occidental from Bakersfield (California)
– to attend OFF school
BP from Glasgow - to attend pressure school
Mobil from London - to attend one day logging school

Continued on page 4

Baker Hughes

- **David Cowan,** VP and General Counsel for BHDEC, Houston visited with **Gavin Sinclair,** Senior Legal Advisor for Baker Hughes Ltd, London and provided legal guidelines.

Exlog Corporate - **Will Honeybourne**, VP for Exlog Operations and **Randy Hardwick,** VP Finance, were in Windsor to review our budget for Fiscal 1990.

Mike Robie, Director of Manufacturing and Jim Iseton, Equipment Resources Manager visited to be familiarized with new unit production.

Bob Drilling, Manager of Information Systems came to be familiarized with operations of Windsor Office and Stock Control systems.

Bob Rees, Senior Marketing Supervisor dropped in to meet Windsor staff and travelled on to West Africa for client visits.

In between visitors, we also got some work done...

Baker Hughes Management Course

Jim Gillet our Area Manager for Africa/Middle East was selected from Exlog to attend the Baker Hughes MGI (Management Growth Institute) in Houston. Managers from the various Baker Hughes Divisions are brought together for a week long course presented by professional management consultants. Additional meetings are held with executive managers from Baker Hughes Corporate and Divisions.

.....We're still waiting for Jim's report card to see if he passed!

A Request for Help ?

I'd like to make an appeal to all EAME employees and particularly to our field personnel. Your input and contributions are needed to make this Regional Newsletter a useful two-way communication.

Undoubtedly some of you have the ability to put pen to paper (or finger to keyboard) to generate articles for publication. These could be humorous, travel or work related, one paragraph or one page, accompanied by relevant photographs or sent in anonymously .

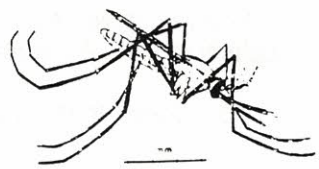
We'd really appreciate your response - make it to the attention of our editor, **Mike Saunders** c/o Windsor office.

Regards, **Ric Ashton**

Malaria

Recent experience in West and Central Africa where drilling contractor's personnel have been dropping like flies to Malaria has highlighted the importance of taking the **right** prophylactics for the **right** time when working in the Malarial regions. So far no Exlog employees in Chad have developed Malaria. Keep taking the tablets.

Know Your Enemy !



The vector for Malaria



The vector for Yellow Fever

SPLAT! Not Much Sympathy for The I/P .

Below is an extract from a recent Accident report on an injury sustained during a rig-up in the UK sector of the North Sea.

"Injured party (I/P) working as Exlog engineer supervising installation of Exlog equipment on an offshore installation. When attempting to install a 10,000 psi fitting (stainless steel) on a pressure transducer onto the choke manifold with a 36" Stilson (wrench), I/P stood on bottom box section of choke manifold approximately 15" off deck, and **holding Stilson with both hands and leaning backwards** attempted to make up fitting tightly. Stilson slipped off stainless steel fitting and I/P fell backwards and down landing on the back of his upper right arm (tricep muscle) against an air winch situated adjacent to work area".

From the description above it is apparent that the engineer was attempting to perform the task in a very unsafe manner; he may also have been using the wrong equipment for the job .

The injury sustained was bad bruising and bleeding of the tricep muscle. In reviewing this incident the injury could have been far worse.

To avoid repetition of this accident, it is imperative that you pre-plan your rig up installations, especially with regard to sensors that are in awkward places. If necessary, request assistance from "The Operator" and "Drilling Contractor". It is in their interests as well as ours to ensure that we rig up in a safe and efficient manner.

Please be aware that we expect all our personnel to be aware of their individual responsibility to ensure that they work safely and thus ensure their environment becomes a safer place to work in.

10 HUMAN FACTORS THAT CAUSE ACCIDENTS

The National Safety Council Newsletter for the Petroleum Industry reported the following:-

"Identify and control the human factors that cause accidents, and you've gone a long way toward cutting down accidents".

Eighty to ninety percent of all accidents - in the home, on the road, or on the job - are caused by human factors. Here are 10 of the most important of these human factors:

1) **Negligence**: Failure to observe safety rules or instructions; failure to maintain equipment.

2) **Anger/Temper**: Causes one to become irrational and to disregard common sense.

3) **Hasty decisions:** Acting before thinking leads to taking hazardous shortcuts.

4) **Indifference**: Lack of attention to the task, not alert, daydreaming.

5) **Distractions**: Interruptions by others while performing normal job duties or non-routine hazardous tasks. Family troubles, thinking about bad news (mental distractons), horseplay.

6) **Curiosity**: Doing an unknown thing just to see what happens.

7) **Inadequate instructions:** Untrained or improperly trained person.

8) **Poor work habits:** Cluttered floor/work area, loose clothing, etc.

9) **Over-confidence:** Too cocky, taking chances, macho behavior.

10) **Lack of planning:** Two or more people, each depending on the other for something that doesn't get done.

AN OPPORTUNITY TO PRACTICE THOSE PRESENTATION SKILLS

Are you frustrated in your attempts to impose your views on others? Haven't you ever wanted to force 20 people to do sums for hours on end? Are you enthusiastic about gas detectors and grainstones, drilling exponents and duplex pumps? Do you think that you know all that there is to know about geology, pressure, equipment, and dealing with people?

If the answer to these questions is yes, then think again; but if the answer to all but the last question is yes why not come and join the Training Department in Windsor.

Due to the extension of responsibilities into the corporate sphere for Martin and Mike Saunders an opportunity has arisen for a bright young logging geologist to come and help out.

Duties will include lecturing in OFF, Pressure and Wireline Schools, assisting with all aspects of recruitment of new graduates, making client oil company presentations on all sorts of subjects, and lots more.

The ideal candidate will have had a variety of professional experiences (some of which he or she may wish to discuss!), have worked as a GEMDAS operator performing a full Pore Pressure Evaluation Service and have good communicaton skills.

The position could be full time and permanent for the right person (including relocation package to Windsor) or might suit those who wish to be temporarily assigned to Training for a period of six months or so before returning to the field. In this case a number of personnel might be cycled through the role to provide a team of qualified instructors who could be called upon as required.

Please contact Mike Nicholson in Windsor as soon as possible for more details and a job description, or, if you're passing through, come in and have a chat.

THE "FIELD PERSONNEL DEVELOPMENT PLAN IS DEAD..."

As some of you are aware, work has been going on for over a year on a replacement for the SPECS system of personnel evaluation.

This work was begun initially by Al MacDonald and Ed Banaszek in Houston and concerned laying down the philosophy and scope of the new system and developing a Tasks and Skills Analysis of the various field logging and data engineering positions.

Since the summer of 1989 Ed has continued the project by compiling second generation evaluation examinations to replace the existing A1-A6, A10-A20 and A100-A200 SPECS Tests.

This phase of the project is now nearing its conclusion as the final task, the compilation of Systems and Operations Guide Manuals, is almost finished. This done, we should be in the position, after Christmas, of being able to release documentation to our field employees such that we can begin to implement this new system of training courses and examinations. When the documents are released you will be able to appreciate the scope of the project more fully.

Having established what the system is expected to achieve, and the skill levels that field employees are required to attain, the next task is to ensure that the company has the means to achieve these goals.

Phase Two of the Plan , therefore, is to do the following:

1) Update and reformat (if necessary) existing Training courses.

2) Develop additional Training courses in order to meet the required task and skill analysis criteria.

3) Update and reinstate all existing Exlog Technical Manuals.

4) Write new Technical Manuals as required.

During the recent Train-the-Trainers Seminar held in Houston it was recognised that the Europe/Africa/Middle East had the most immediate need to implement this new system and also had resources and technical expertise available to do a good deal of this developmental work.

For at least the next twelve months, the Technical Services Department in Corporate, headed by Mike Taylor, has established a project team in Windsor in order to ensure that this initial training course and manual development work proceeds without delay.

The Project Supervisor is Martin Saunders, already assisted by Ed Banaszek (on assignment from Corporate) and Mike Saunders. The team will no doubt also be seeking technical assistance from the other regions as well as specialist skills from suitably qualified field and office personnel; principly from EAME.

We will endeavor to keep you informed as to what the team is up to (during working hours at least) and will be happy to answer any questions or indeed receive any suggestions that you may have.

...LONG LIVE THE EXPERT SYSTEM℠

As a footnote to theFPDP article please note that a committee of six agreed that Field Personnel Development Plan, variously referred to as FPDP, "FPPP?", "DPFC? ",and "what's it called?" is to be renamed the Exlog Personnel Training System (EXPerTS) if you don't like it ...

A New Approach To Health and Safety

by Mike Coe

We have received a letter from the President of Exlog confirming the company's dedication to ensuring the health and safety of all its employees.

Here is a copy of the letter:-

"It is the policy of Exlog Inc, that every employee is entitled to work in a safe workplace. We are committed to having a safety program which will ensure the safety of our employees. The prevention of on-the-job accidents in an effort to minimize injuries, lost time on the job, actual expense to the company, and potential negative impact on our customers, demands our full attention.

Our plan of action for establishing and maintaining a safe work environment includes communication of the company safety policies, training employees in safe practices, and taking immediate corrective action when potentially unsafe situations are identified. All levels of supervision are accountable for conducting day-to-day business in a safe manner...

... Our total safety program, emphasizing identification, control, accountability and communication will contribute to making a safer and more productive company.

John F. Lauletta
President"

Exlog Corporate are reviewing all existing policies with a view to updating and adding to create a new worldwide Health & Safety Manual which will be made available to all Units and Offices within a year.

Entities have been encouraged to provide input to ensure that all potential hazards are covered in the new Policy. Existing policies are in need of updating and formalizing to satisfy oil companies. Additionally, UK legislation, referred to as COSHH (Control of Substances Hazardous to Health) had been introduced on October 1st with which all UK employers had to comply. To determine if substances fell within COSHH employers had to "assess" all work practices and this had to be completed by 1st January 1990. After that date, any new substance introduced would have to be "assessed" before it could be used.

We would like to inform you that a regional Health and Safety Committee has been established comprising Ric Ashton, Mike Coe, Geoff Cutler, Peter Davey, Mark Fielder, Stuart Pressage and Martin Saunders. We must stress, however, that for the Committee to be effective as much input as possible is being sought from all employees in the Europe/Africa/Middle East region. A personal letter is being sent to each field employee advising them that, on their next visit to the rig, their unit manager will be responsible for discussions being held with all the Exlog crew members and that he return a report of those discussions in the form of a completed Questionnaire to the Health and Safety Committee in Windsor. Where employees are not going to units they are encouraged to write independently, again to the Health and Safety Committee in Windsor.

OIL BASED MUDS

As a result of two recent meetings in Aberdeen/Windsor, we have become more aware of the considerable concern that field personnel have regarding the handling of oil based muds. We are pleased to notify you that special kits are being sent as soon as possible to all units where there are known to be continuous drilling programmes using oil based muds. It will be the responsibility of the Unit Manager to ensure that the kit is properly used (instructions will be sent with the kit) and that replacement items are reordered as and when necessary. Note, the kit will not become part of the normal bi-monthly inventory. Any unit using oil based muds which does not receive a kit by the end of January should contact their nearest office and we will respond accordingly.

EDUCATION

The Committee proposes to continuously contribute to this Newsletter to keep you informed of new policies which are being introduced affecting Health and Safety and as a way of educating employees in the handling of potentially hazardous substances and dangerous practices.

In the next edition, the Committee hopes to be able to summarize the results of the Questionnaires going to units for completion by the New Year but it must be borne in mind that changes can only be introduced in a reasonably practicable manner.

We are introducing at least half a day devoted to all aspects of Health and Safety for all participants in OFF Schools with specific emphasis on H2S, chemicals, other gases, unit evacuation and protective clothing. It is felt that by exposing OFF School participants to such education, it will be of immediate benefit to them. We are attempting to develop a shortened version of this training which will be tagged on to other advanced schools run in Windsor, the aim being to inform all field employees over a reasonable period. We hope you will find this section of the Newsletter interesting and encouraging.

AN INTIMATE VIEW OF THE BERGEN OFFICE

by Mark Kingsley

When Ingerid Sulen asked me to write "something" about the Bergen office, I thought I would take her quite literally, for it is not that often that an office has anything written about it. People spend long hours in it, use it for the greater good of the company, and leave it in the evening when it will allow them to.

If you want to find the office in Bergen without people in it, you will have to go early, for life in a Norwegian office starts about the time most British office workers are crunching through their cornflakes. As we are all painfully aware, the oil industry is a very variable affair, and the mood and appearance of the office is a barometer that accurately measures the pressure of work that the industry provides. At the moment there are two stand-alone MWD units outside the Bergen office that have to withstand the baleful glare of the management each morning. That same management has recently promised us all smoked salmon sandwiches every lunchtime until we all grow dorsal fins, if work can be found for those two stragglers.

The office has a nice enough setting. Tucked away at the edge of Arne Bande's perpetual building site, nestling among typical Norwegian hill-sides; bare rock, bristling fir trees all generously bathed in weather; for weather is one of the things that Bergen excels in. Here we have as many varieties of weather as you want, and generally can throw together two or three different sorts in the course of a day.

It can take a while to learn to treat the front door to the office with the understanding it deserves. Its problem is that it thinks it's a car door. It opens outwards, in a world where doors generally don't generations of loggers have cursed it, but will it change its ways? There often seem to be interesting things in the hallway on the other side of the door, crates of fermenting apples, boxes of raw fish. Somehow the name Oystein Spilde seems to spring to mind, that PC minded eccentric from Hardanger, who insists on bringing the atmosphere of the fjords wherever he goes.

Let's breeze our way through reception, never forgetting to be nice to Elin-May, that eternally jolly lady; all that stands between the revolting loggers and the throats of harassed management. Probably the most notable piece of electronic sculpture in reception must be the fax machine. Now there's a very odd machine. Most news arrives to the staccato buzz of the switch board repeater (a term I have just invented) that causes everyone to perform a mental head-count of the current population of the building, in a frantic attempt to sort out whose job it is supposed to be to answer it, before Mr. Wildcat takes his business elsewhere. Occasionally news hammers on the front desk but with the fax machine it just glides out and lies there face down. It may be a five year contract for five flavours of Exlog services, or it may be an MWD failing when it thought a casing pick might be imminent; but no-one will know until they turn it over. Those of faint heart are advised to give the fax machine a wide birth.

Getting a look at Eric (Fristad)'s office without Eric in it is not an easy thing to do, he is in it rather a lot. Those on the other side of the North Sea who think that all the Norwegians go home at four clearly have never tried to sneak into Eric's office to discover where he has hidden all the money.

As you wander through the administration area it is easy to spot Lena (Franzon)'s territory. She seems to have ended up with more computer hardware than a DMS unit. It is from here that she valiantly attempts to reconcile the spontaneous demands of the clients for instant crews, with the optimistic attitude that Exlog can always provide white boxes complete with interior people, anywhere, any time. I suppose her personal computer shop gives the juggling

act a look of scheduled itineraried plannedness.

Ingerid's office has that look of cool, calm tidiness that defies anyone to steal her gluestick. Exlog may be a multinational company, but the whereabouts of your last gluestick is something that no-one wants to think about too much.

Tony (McAlloon) seems to have the knack of not making an awful mess of his office regardless of how busy he is. This is extremely irritating for those who find productivity and paper chaos to be inseparable. I am sure, were it not for his transatlantic charm, that one of the GED engineers would probably break in at night and wreck the place for him.

Not that Steve (McDonough) and his merry pot twiddlers don't try. I was amazed to see an engineering department tidied beyond recognition a few days ago... but then that was before open heart surgery had been performed on a few bits of vital equipment; and Steve had to spend the day designing and building a PCB that would, if disaster and calamity struck the Bergen area, at least have the good manners to shut down the office computer system nicely, slamming all its files firmly shut. Not that I would want it any other way, for that is how GED engineers have always been; it's just that it makes it so hard to find Steve's gluestick in times of tackiest need.

Eammon (Doyle)'s office gives the distinct impression that he has not one, but a whole host of jobs to do. Funny that? He undoubtedly gets the prize for the office with the oddest things lying around in the most normal of places. The curiously painted rock weighing down the wage demands from the disorganised NOPEF union members, and the handcrafted model of the Polar Pioneer, made entirely in the dark, helping to keep in place the document outlining the wage demands from the organised non-union members; and we cannot fail to mention the rubber plant. If you have, at one time or another, been crawling around on your hands and knees hoping to discover something in your personal file, you would also have found a bag of peat and a trowel. That makes the rubber plant probably the best cared for member of the company.

Downstairs is a world of bits and pieces. Steve (McQuiston) in the stores knows where they are when they arrive, and can tell you when they left, but for the rest of the time its just a question of local knowledge.

Henny and her team of MWD electronics surgeons tend their long thin patients, repairing their injuries and giving them their confidence and the will to go down there and do it again, only this time for longer. In the mechanics workshop wonders of engineering are performed, making rusty bent things shiny and straight again. The delicate installation of pulsers into old BMWs and piston rings into collars. Maybe I'm getting confused, but who knows, the tools might work better that way. I'm told that BMWs are very reliable.

And there it is, the Bergen office. Now all you have to do is remember to push the door and not pull it; and you can go and visit the Exlog Hilton, the very smart staff house that Ingerid found for us.

An Almanack Special Feature- a Prelude to number three.

MID-WINTER COMPETITION
PART ONE

An Exlog manager recently visited a certain country and got Exlog's name in the local paper (not for doing anything too exciting unfortunately) - see the extract.

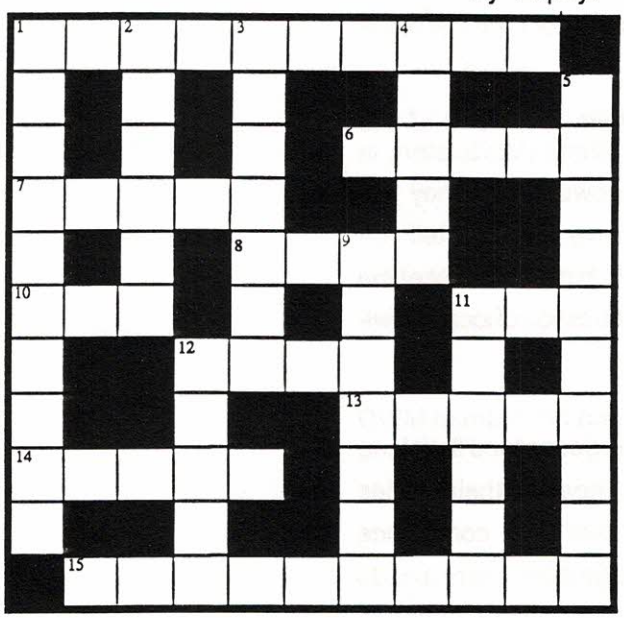
A prize of $25 or local equivalent (eg. over 35,000 lire (£)) for the first person to answer the following questions and complete the crossword. Send entries to The Editor, The Newsletter, EL Services, Windsor. The first correct entry to be opened by January 30th 1990 will win.

1) Which country is this?
2) What is the capital?
3) What is the name of the country's largest lake?
4) Which countries share borders with the one in question?

NB. There are some clues in the extract but also the odd red herring or "erodi herringinits" as they say.

PART TWO

by Zephyr



ACROSS

1. Aid backed by first book gives change after deposit (10).
6. Escape route from hat check girl (5).
7. Extremely - basically silica free (5).
8. First made fifth letter, we hear, is gas charged lava (4).
10. Sounds like a holy boat at island chain (3).
11. Rummy kind of of alcohol ? (3)
12. Flat rock - a bit of a balls up ? (4)
13. A charge for a coral ring (5).
14. Boiled rib to give planetary motion (5).
15. Mary holds church and sick identity in permeability unit (10).

DOWN

1. A tune did no damage - erosion did ! (10).
2. 10 with itch for northern icy waste (6).
3. Paraffin fuel confused the loan (7).
4. Time subdivision is place for performance (5).
5. Horology can almost produce arrangement of dates (10).
9. Deem bay should have been formed into a bay (7).
11. Drilling service from Anglo-Marine company (6).
12. Starting price on one lawyer upset liquid (5).

PREVIOUS ANSWERS:Across: 1-Zoroaster 2-Pusilanimous 4-Thing 5-Ginger Whippet 6-Bobble 10-Detumescent 15-Stafford **Down:**1-Chicken in the Basket 3-Roughage 4-Dartboard 7-Ankylosaur 8-Barf 9-Pedigree 13-Ping 14-Emeritus Professor of Chemistry 16-Lower Manurian

NÉPLAP

1989. SZEPTEMBER 30.

Rendkívüli érdeklődés kíséri a Kőolajkutató Vállalat nemzetközi tanácskozását

Szolnok is jelesre vizsgázott

Az előzetes jelzéseket igazolva rendkívüli érdeklődés mellett zajlik a Kőolajkutató Vállalat által rendezett nemzetközi tanácskozás Szolnokon a Tudomány és a Technika Házában. Tegnap a szakmai előadásokra és a Technika Házának reprezentatív előcsarnokában megrendezett kiállításra több mint száz hazai olajipari szakember jött el, hogy megismerkedjen az olajkutatás legújabb hazai és külföldi tudományos, gyakorlati eredményeivel.

Az előadások és a kiállítási anyagok az olajkutak lemélyítése közbeni földtani fúrás műszaki információszerzés témája köré csoportosultak.

Hazánkban 10 év óta folyik ilyen irányú intenzív szakmai munka műszerkabinokkal. Ezek a nagy értékű, a világ élvonalába tartozó professzionális számítógépegységekkel felszerelt információszerző berendezések jelentős tényezőivé váltak annak a szakmai munkának, amelynek révén az igen veszélyes földtani képződményekben is biztonságosan mélyülhetnek a több tízmilliő forint értékű hazai olaj- és gázkutaink — hangsúlyozta a tanácskozás egyik előadásában Hegyi Ferenc, a Kőolajkutató Vállalat főmérnöke.

S valóban, az alföldi településeken körében két-három év óta nem okoznak riadalmat a gáz-, vagy olajkútkitörések. Ez megnyugtatóan hat a régió lakosai számára csakúgy, mint az államháztartására, hiszen az iszonyatos energiával kitörő olajkutak elfojtásának óriási költségei nem terhelik az államkasszát.

A pénteken elhangzott előadások mind azt bizonyították, jól jövedelmező volt az olajkutatás ezen új szakterületének felkarolása, pénzügyi menedzselése.

A rendezvény nyitó előadásában dr. Kókai János, az OKGT kutatási igazgatója felvázolta a várható alföldi szénhidrogén-kutatás jövőbeni perspektíváit, melyek tovább erősítik a Kőolajkutató Vállalat műszerkabinos szakágának létjogosultságát az Alföld fekete aranyának feltárási munkálataiban.

A továbbfejlődés lehetőségeire éreztek rá a külföldi műszerkabint gyártó cégek is, amelyek közül több szakmai világhírnévre szert tett csoport is előadásokkal és kiállítási anyaggal jelentkezett.

Elhozta bemutatni legújabb, rendkívül látványos software és műszerfejlesztési eredményeit prezentáló kiállítását a francia Geoservices cég, amelynek termékeiből már három műszerkabint vásárolt eddig az elmúlt évek során a Kőolajkutató Vállalat.

Kiállítással és előadással volt jelen a rendezvényen az amerikai érdekeltségű Halliburton Geodata LTD, míg a színtén amerikai központú M—I Drilling Fluids Co. I képviseletében megjelent Jerry Kwieczinsky igen érdekes szakelőadással járult hozzá a konferencia sikeréhez, de megfigyelőként az Exlog is elküldte Szolnokra „utazó ügynökét" friss információk gyűjtésére.

Külön öröm volt, hogy csehszlovák és magyar olajipari együttműködés prog-

ressziv jeleként három csehszlovák olajipari tudományos intézet, illetve vállalat szakemberei jöttek el a szakmai programra.

A méltán nagy sikerű előadássorozatot követően este hét órától a rendezők a KV geológiai szervizüzeme és az olajipari nagyvállalat OMBKE szervezete állófogadást adott a rendezvény résztvevőinek a Tisza Szálló nagytermében, ahol könnyedebb formában lapzártakor is folyt a szakmai eszmecsere.

A mai napon Szeged térségében szakmai kirándulásson tekintenek meg egy műszerkabin kísérettel mélyülő fúrást a nemzetközi tanácskozás tagjai.

Nemcsak az alföldi olajkutató nagyvállalat szakemberei, a rendező gárda vizsgázott az elmúlt napokban a nagyvilág előtt, hanem Szolnok is.

Mint az igen feszes ütemezésű pénteki napon vállalkozások interjúra az érdeklődő szakemberek gyűrűjéből kiragadott David Harrison angol üzletember elmondta:

— Első alkalommal járva Magyarországon, és ezen belül legtöbb időt Szolnok városában töltve, igen kellemes benyomásokat szereztem. Az emberek kedvesek, segítőkészek. A Tisza Szálló hangulatos és kényelmes szálláshely. Eddig, minden túlzott udvariasági formát mellőzve is azt tudom mondani, igen kedvező impressziókat viszek haza az Önök városából, nemkülönben a rendkívüli atmoszférát árasztó Technika Házáról. Mely szerintem nagyszerű környezetet teremtett ennek az izgalmas tanácskozásnak.

— Veresegyházi —

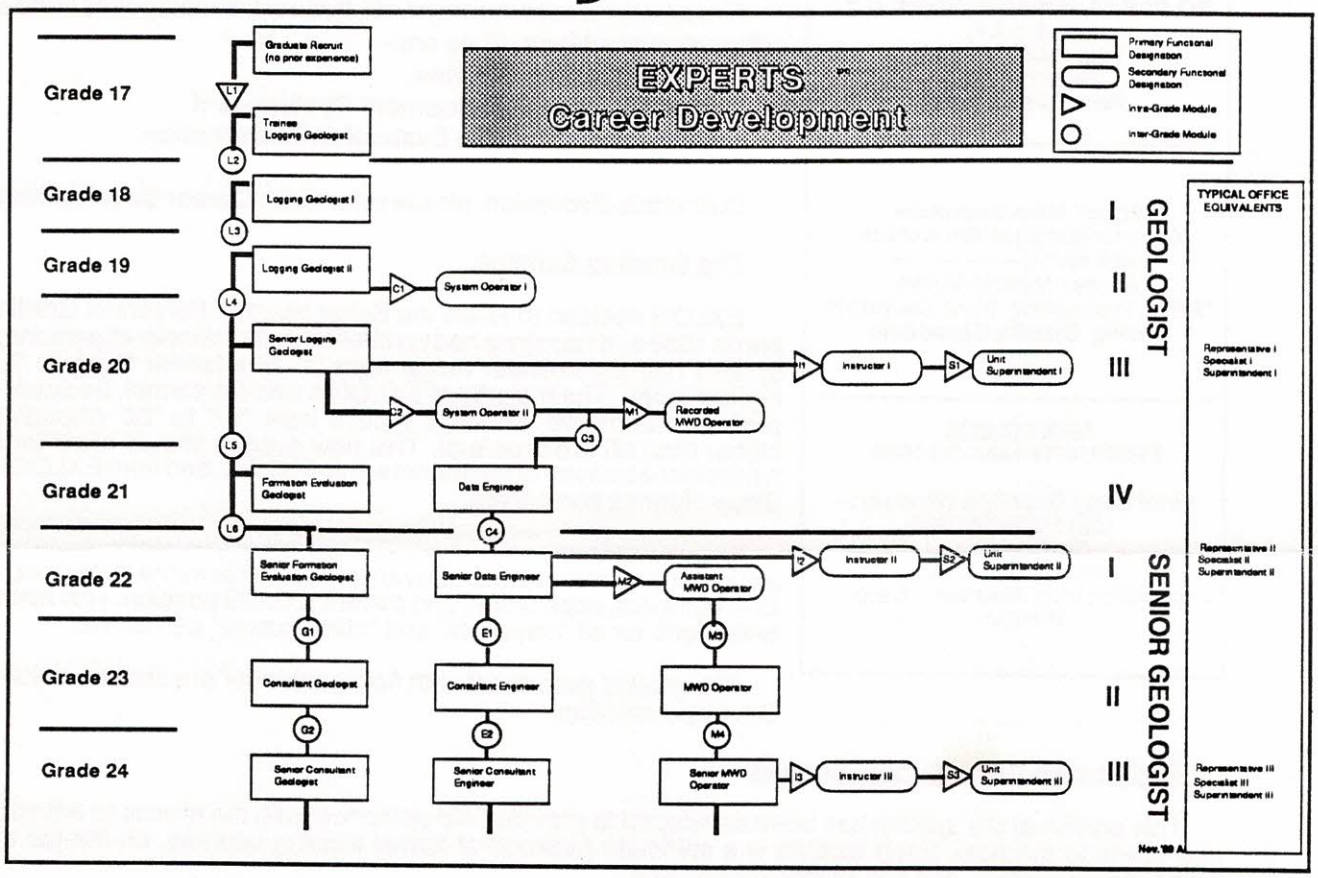
Megkezdi

Magyarországon

EXLOG® NEWSLETTER
A Baker Hughes company

December '89/ January '90 *Europe/Africa/Middle-East Region* Vol 3 No.1

The Way Ahead (p.2)



Contents

Insurance Enrollment	1
Mapping out the future - Read It!	2
Health and Safety Bulletin - Read It!	3-5
Danish Dosh Doled Out to Diligent Duo !	5
Second Employee Retires from EAME Region	6
Cairo OFF school	7
Soft-tools on the Table: Paper, Plotters, and PDCs	10
Letters page - Anxious Words	11
Crosswords	12
A Ropey Old Bit Table (sorry Adam)	13+

In Brief

Medical and Dental Insurance Enrollment:

Some justifiable concern has been expressed, because of the delay in mailing out the new enrollment forms, as to whether insurance cover has lapsed on January 1st because we had not received your completed form. The answer is: your medical and dental insurance cover is valid regardless of when you return the forms; but you should attempt to return them soon. We have assured the new underwriters, Provident, that they will have a complete new card for all employees early in 1990.

We delayed sending out the forms so that other material could be included in the same envelopes, thus saving postage. Apologies for the confusion.

M.C.

EXLOG®

REGIONAL NEWSLETTER
EUROPE AFRICA MIDDLE-EAST

Produced on behalf of:-
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NEXT ISSUE
FEBRUARY/MARCH 1990

Final Copy Deadline Windsor:–
10th MARCH 1990
Stop press:–
20th MARCH 1990
Distribution from Aberdeen, Bergen, Windsor.

The EXLOG PERsonnel Training (EXPERT) System

Since January 1989, Exlog's Technical Services Section has been preparing a personnel system which will provide our employees with a more professional career structure. This system will soon be implemented in the Europe/Africa/Middle East region. To help employees better understand the system, an Operation Guide (MS- 10003) has been written, especially for field employees and their Operations Department.

As a career development system, three of the main points in the system will be discussed here. They are:-

1) **the Grading Scheme**,
2) the **Module Development System**, and
3) the end-of-module **Evaluation Examination**.

During this discussion, please refer to the **Career Development Map**.

The Grading Scheme

EXLOG decided to follow the Baker Hughes Personnel Grading System in 1989 and has since had to redefine and reclassify all personnel. This system has a non-linear range from "1" (the lowest level) to "38" (the highest level). The majority of EXLOG's field personnel, because of their professional nature, will have grades from "17" to "24" (though grades higher than 25 are possible). This new system should allow for a more harmonious transfer of personnel within EXLOG, and from EXLOG to other Baker Hughes companies.

The Operations and Personnel departments have the responsibility to assign all personnel to their relevant grades. This will be done using current ECL numbers, experience, and current EXLOG position. This has already been done for all "corporate" and "office-based" personnel.

The grades associated with field personnel are shown on the Career Development Map.

The Module Development System

This portion of the system has been developed to provide field personnel with the means to advance from one grade to the next. Each module is a complete package of formal training courses, on-the-job training, probationary periods, and self-teaching exercises.

Modules are represented on the Career Development Map by the circles (**Inter-Grade Modules**) and the triangles (**Intra-Grade Modules**).

The modules are grouped together under similar function designations:

Group L - Logging Services

Group C - Computerised Services

Group M - MWD Services

Group G - Geological Cosultancy

Group E - Engineering Consultancy

Group S - Unit Superintendant

Group I - Instructor

Continued on Page 8

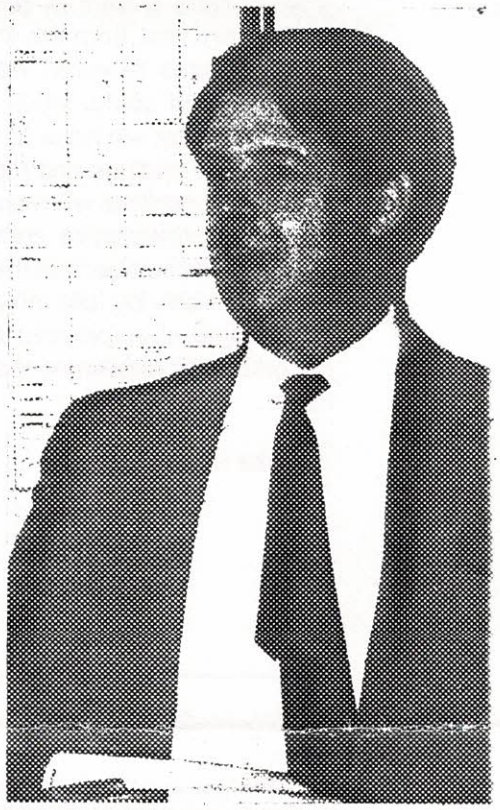
EXLOG ... Advancing Drilling

Health and Safety Bulletin

the Europe Africa Middle East Regional Safety Committe comprises:–
Mike Coe (Chairman); Ric Ashton (Regional Manager); Peter Davey (Manufacturing); Geoff Cutler (Shipping); Martin saunders (Training); Mark Fielder (Engineering QA); Stuart Pressage (Field QA).

Health and Safety Training

Martin Saunders



As part of EXLOG Inc.'s determination to promote health and safety awareness amongst it's employees, training programmes are being developed, and will be presented, within the EAME Region to all levels of field personnel.

The training will focus on three levels of experience :

A. OFF School Training

In order to promote Health and Safety at an early stage, one afternoon during the OFF School has now been set aside for Health and Safety training. An agenda for the training is included below, concentrating on general topics with certain key specifics such as H_2S, Oil Based Muds, Use and Storage of Hazardous Substances and First Aid.

B. Training for experienced personnel

For those existing personnel who have not yet had any formal Health and Safety Training it is our intention to extend current advanced courses such as Pressure schools by at least one half day in order cover this important subject in a timely manner.

C. For potential Unit Superintendents

As part of the new EXPERTS℠ programme, formal training for Unit Superintendents (unit managers) will be provided. Part of this training will cover this person's responsibility for the health and safety of all logging crew members.

Oil Field Familiarisation School
Health and SafetyTraining Seminar
Includes:-
Introduction and Overview
Offshore Safety and Survival Training
Personal Responsibilities
Rig Safety
Gas Detection (H_2S)
Drilling Fluids (Oil Based & Other Muds)
Chemicals (Use, Storage,Emergencies)
First Aid
Electrical Systems
Proper Use of Escape Hatch

Note that all area and entity offices have been instructed to hold monthly H&S meetings and to report on a regular basis to the Regional Health and Safety Committee in Windsor.

Monthly Safety Report

Mike Coe

MONTHLY SAFETY REPORT. Whilst it was intended to serve as an engineering document to cover the safety of the unit equipment it has now become clear that the content should be expanded to cover other areas of concern which have an effect on personnel health and safety.

Primarily this will include details such as the condition and stock level of unit first aid kits, details of attendance at rig safety meetings, availability of personal protective clothing , fire extinguishers etc.

It is also intended that the reports of accidents or near accidents, are reported as part of the monthly report. This will ensure that these details are logged and that they receive the attention that they deserve from the Health and Safety Committee.

As the new forms are received in the units we would ask all field staff to comment on the content and to suggest any additions that we can make to cover all legitimate safety concerns.

EXLOG
... Advancing Drilling

Questionnaires

The Health and Safety Questionnaires are beginning to come in apace. Please ensure your unit's questionnaire is sent in even if it seems very late. from the first few questionnaires received we have derived much useful input. In the next newsletter we hope to review some of our findings and report on how the Committee will respond to the many constructive comments received. Remember that the Committee can only be fully effective if, when asked, all employees take the opportunity of explaining their concerns.

Mike Coe

Accident Insurance

I have yet again been asked "Are we insured when climbing the rig derrick?" I would confirm that provided you are going up the derrick with the full approval and knowledge of the chief driller in the course of carrying out your duties for Exlog there is no - repeat no- limitation on the various insurances in place. At no time should employees go up the derrick when the drill pipe is rotating or being manoeuvered.

Mike Coe

Protective Clothing

The Committee made the decision earlier this month to improve protective boots and coveralls. At present research is being carried out in conjunction with the British Textile Technology Group to locate a manufacturer of equally fire resistant coveralls, which will satisfy British standards, but which weigh significantly less for use in warm climates. We hope in the next newsletter to detail the results of our enquiries.

Oil-based Mud Kits (OBM) - the first kits are being shipped to units this week with instructions to use same. Please to don't allow non-Exlog personnel to use the kit and only only re-order components when necessary. The Committee is very grateful for the input received regarding the problems faced by some employees when handling OBM. Hopefully there will be no more instances of adverse reaction like those sustained in one case recently

Mike Coe

First Aid

Remember the unit first aid kit? It's probably that rusting white tin that you've pushed to the back of the cupboard under the sink! When did you last check ?

The First Aid Kit (**EL P/N 6598**) currently issued to each logging laboratory via inventory requests comprises:–

2	x	non-woven triangular bandage 88cm x 124cm
6	x	medium unmedicated dressing
2	x	large unmedicated dressing
2	x	extra large unmedicated dressing
2	x	eye pad unmedicated dressing
1	x	airstrip plaster pack containing 4 small squares and 20 small rectangles
6	x	safety pins
1	x	guidance card to the Health and Safety (First Aid) Regulations 1981.

Please make sure that they are complete.

In addition, units in areas where "AIDS" and Hepatitis B are prevalent are entitled to request that they are forwarded one "Prevention Pack" to be part of the standard inventory item.

These AIDS and Hepatitis B prevention packs contain 3 syringes, 10 needles, suture material, drip needle, steristrips, melolin dressings, alchohol swabs, a label for blood group, as well as insructions for use of the pack.

The ideal situation, is that: should Exlog personnel become casualties requiring injections or intravenous fluid, the pack is sent to hospital with the casualty for use during treatment.

This does not cover personnel travelling to and from rigs or on holiday. If you want a personal kit they are available from MASTA (01 - 631 - 4408) and cost £13.80 each.

Hands Up! Who's Using Oil Based Mud?

Now keep them out of said mud with the Oil Based Mud Safety Kits. These are currently being supplied to the Windsor office from Aberdeen; Kevin Keith (Aberdeen's storeman) has been fighting (almost literally) with suppliers to deliver throughout January.

The constituent parts of the kit are as follows:–

EL P/N	DESCRIPTION	ORDER QUANTITY
32545	Retnol Hand Cream	4 Litres
32539	Barrier Cream	5 Litres
32540	Reconditioning Cream	5 Litres
32544	Disposable Gloves	1 Box (100 pairs) Latex Featherlite Type
32542	Green Nitrile Gloves	5 pairs (large)
32543	Green Supertough Gloves	10 pairs (large)
32541	Goggles	4 pairs
32547	Eyewash Bottle	1 bottle
32548	Eyewash Lotion Optrex	2 bottles

The whole lot can be ordered as a kit . **EL/PN 32841**

Use of the kit is simple. First put barrier cream on the hands, then a pair of the fine latex gloves. Over which which the larger gauntlet type are worn.

The hand cleanser and conditioner are for cleaning off after shift.

Goggles are mandatory for use with chemicals. The eyewash bottles are for those that fail to use the goggles, or meet with a bad accident.

The idea of two pairs of gloves is that even if the robust large gauntlets become contaminated on the INSIDE they can still be used since the innerfine latex pair continue to give protection and improved sensitivity.

So watch out. Even if you think that you have got away from all the nasty mud chemicals! If you are in an environmentally sensitive area, some Oil Companies have thought to avoid OBMs by using high-Alkaline muds such as Potassium Acetate. Use the kit for these as well.

Stuart Pressage

EXLOG BOYS STRIKE IT RICH IN MASSIVE PRIZE BONANZA !! Stuart Boyd Reports

Safety is a subject close to everyone's heart. Now Maersk Olie og Gas have a scheme whereby being safety conscious can have a material as well as a physical reward.

Those imaginative souls, **Keith Brown** and **Mike Richardson** have recently been rewarded for their suggestions on offshore safety on Maersk installations. Suggestion boxes are sited on all Maersk rigs and platforms and the jack-pot is Dkr 5000 (£450). Last month the cash was scooped by the old "tactile arrows on the floor pointing to emergency exits so that you can feel your way out" chestnut so there is hope for all who enter.

Our boys won their prizes (a pen set and tie) as follows:

A flashing warning light to be activated by the driller to warn rig personnel when high pressure testing of lines and tools is taking place in the rig floor/cantilever area. Only personnel associated with the testing should be in these areas at the time of the tests and often the warning announcements are not heard in noisy places. This idea came to light (sorry) during extensive fracturing work on the Maersk Guardian when high pressure testing was a frequent occurrence.

Maersk rigs have water tight doors with 6 or 8 dogs to hold them closed. This does not aid rapid progress so a central wheel operating a series of rods was suggested.

The example of these doughty salts is admirable and also shows Maersk that our personnel are taking safety seriously.

Being safety conscious is of advantage to all of us, in more ways than one.



Pat Keen (see below)

On December 19th Pat Keen retired from Exlog to start what we all hope will be a long, healthy and happy retirement. She has started well for we understand she is already actively involved in keep-fit, bowls, and dancing in her new home area of Rottingdean - West Sussex.

Pat joined Exlog in May 1977 as a bookeeper and was later promoted to assistant accountant. She always displayed a professional and impartial attitude to her work and a sincere loyalty to Exlog. Well spoken, ever youthful, polite and with a good sense of humour, Pat was always popular in the office yet greatly respected.

At the presentation on the event of her leaving, Pat was given a token of appreciation plus the good wishes of her many colleagues within this Region. In thanking Exlog Pat stated that she was determined to enjoy her retirement and affirmed that, as an employer, Exlog had been very fair and understanding to her and wished the company continued success.

Thank you Pat for your important contribution to Exlog and best wishes for your retirement.

Mike Coe

Newsletter Scanner Appeal : these photographs would be much better if we had a scanner!



In December Mike Saunders travelled to Cairo to help Cairo office's own training staffand deliver an OFF school. Participants included Khaled Hosny, Taher Gomma, Mohammed Abd' El-Khalek, Hossam Bassiony, Ashraf El Etriby, and Sherif Gowelly.

EXLOG®

A Baker Hughes company

As a world-wide leader in drilling instrumentation, well bore data acquisition and mud logging services, Exlog Inc. provides full integrated wellsite services for drilling efficiency and formation evaluation. Due to our expanding and dynamic business, we are searching for a highly motivated team player ready for the exciting challenge Exlog Inc. will provide:

Safety Manager/Supervisor

Succesful applicant will have a bachelor's degree in a Scientific or engineering discipline with CSP or CIH preferred. Must be familiar with OSHA, EPA, DOT and U.S.G.S. regulations. Three to five years experience in the oilfield are required.

Responsible for establishing and maintaining a worldwide safety policy and insuring compliance with all Government safety and environmental regulations.

Exlog. Inc. offers a comprehensive benefits package including: Flexible Medical, Dental, Vision and Life Insurance, Tuition Reimbursement, 401K Plan, and Employee Stock Purchase.

VERY IMPORTANT:
For timely consideration by HUMAN RESOURCES, Exlog. Inc., Houston, Texas please list the position you wish to be considered for on the outside of your envelope as you submit your C.V. SALARY HISTORY AND SALARY REQUIREMENTS TO:
Mike Nicholson, Personnel Manager,
Exlog (Services),
P.O. Box 46,
Windsor,
Berks,
SL4 5LF
U.K.

These modules will vary in complexity and in the requirements for completing them. For example, the requirements for Module L3 may include:

1. Advanced Logging Procedures School
2. Hardware I School
3. 4 months service in L2
4. View AV 1, 2, 4, 6, 7 and 12
5. View film or read articles on geology
6. Write the "Geology Section" of the Final Well Report.
7. Read/Be familiar with the "Mud Logging: P & I" manual in the Application Library
8. End-of-Module Evaluation Examination
9. Review & Appraisal by Operations

When the individual has successfully completed all the requirements then they are eligible for promotion to Grade 19.

To fall in line with the modules, many of the present training courses are being revised, and new ones introduced. As you can see, much "outside" work will be required on the individual's part.

Using the modules, an individual can always see exactly where they are in the system, what they have accomplished, and what they need to accomplish before they can advance.

Evaluation Examination

Most of the inter-grade and many of the intra-grade modules have as their final objective an Evaluation Examination. This "test" is designed to confirm the knowledge and skills gained while working through the module. The questions on the examination will be based on the entire module requirements.

Most of the "End-of-Module" examination tests will contain both multiple choice and essay-type questions. The questions are designed as follows:

L4/ELG/047 (mark 2)

Where:

L4 - indicates the module

ELG - indicates the question category (ELG are Electric Log)

047 - indicates the question number in the category

(mark 2) - indicates the number of correct answers

The pass markt for the examination is still 80%.

Passing an "end-of-module" evaluation examination does not automatically result in an increase in grade. The final part of every module is a **"Review and Appraisal"** conducted by the Operations and Training Departments.

At this time ALL module requirements will be reviewed, discussed and appraised. There may be time when the individual will have to attend these sessions.

After the Review and Appraisal is completed, the Operations Department will decide on any grade increases.

Conclusion

I realise that many of you will have many questions concerning the system. An Operations Guide (MS-10003) is available in the Operational Offices for your review. This Operations Guide will be placed in the logging units' Application Library.

Questions Answered

Q:What effect will my grade have on my base salary?

A:A change in grade is linked to a change in salary. Bonuses will not change within a grade.

Q:What happens if I remain in the same grade for a long period of time?

A:All grade bands have a salary scale, a low end, a mid-range, and a high end. When you first enter a grade, you'll most probably get the low end salary range. Though you're still in the same grade for an extended period of time, you can still get salary increases.

Q:Can I work on module requirements other than the one I'm currently working in?

A:If the situation exists that there is a school or course available that is not in your immediate module, allowing for operational requirements, you can attend and have that course credit for another module on your record. Unused credits remain "fresh" for only one year, after that the end of course examination will need to be passed again

Q:How are the end-of-module tests different from the SPECS tests?

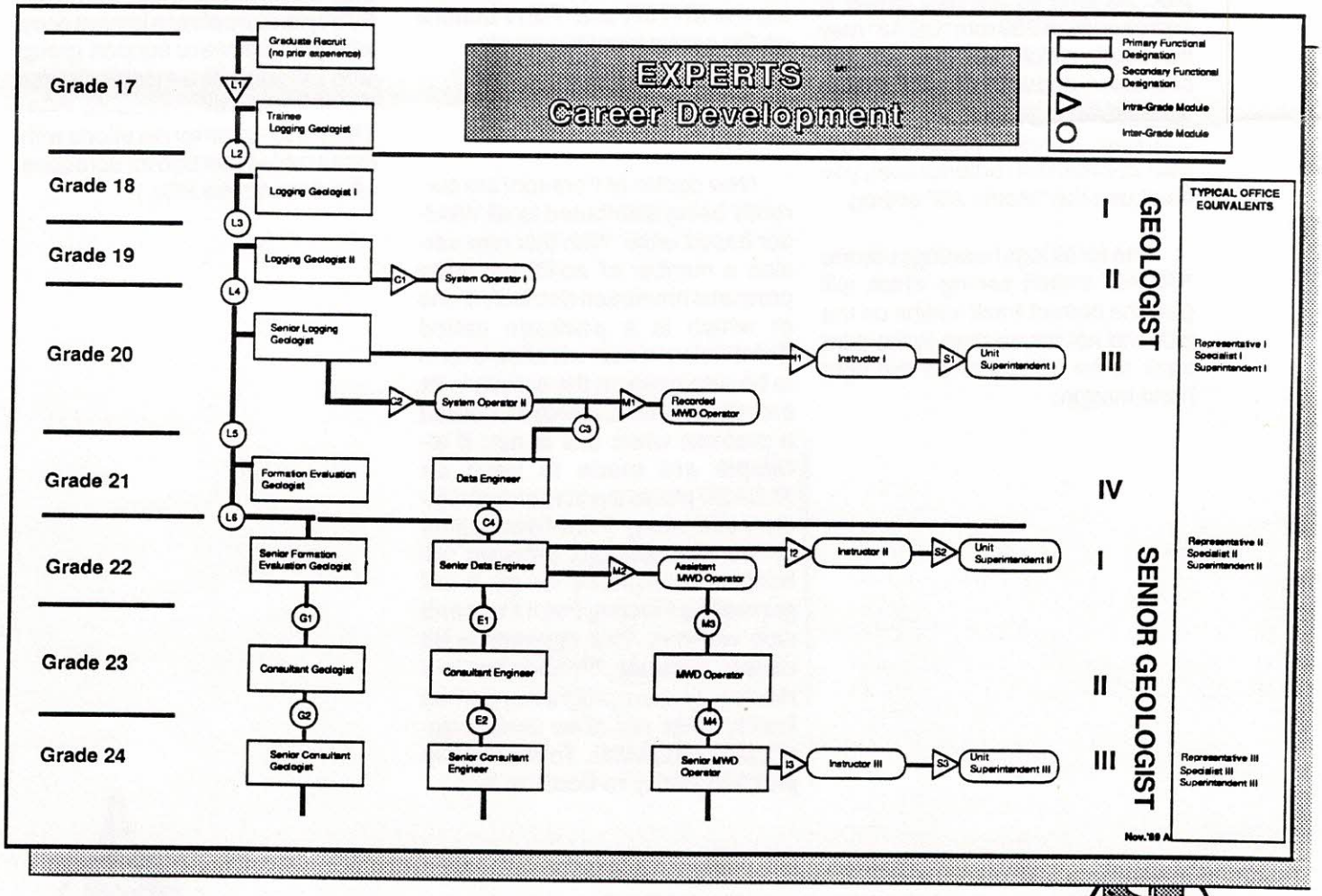
A:At present, the most tests contain 30 multiple choice questions and 3 calculation/essay questions. You will be required to do all multiple choice questions and 2 of the 3 calculation/essay questions. The tests are designed to cover the entire module contents, and will necessarily involve questions from all the subjects covered in the required courses. With evolving services, the tests will also evolve.

Q:What if I can't come to the operational offices to view AVs, videos, etc.?

A:If that is the case, then the training departments will work with you to find some other way to aquire the information.

Q:How do I know what the module requirements are?

A:All requirements are listed in the Operations Guide.



Further Routes to Logging XLence

Al Doyle

1. A3 Dyeline Paper

All XLBASE CML users please note - A3 Dyline paper for producing copies of the A3 polyester film is now a stock item in Windsor and may be ordered on your inventory. The part number for the paper is 35384, and a pack contains 100 sheets.

2. Switch Settings on the HP7475 Plotter.

It has been noticed with XLBASE plots that the US/Metric switch on the plotter has quite a marked effect on the character size produced on a plot. As long as the plot format is narrower than 259 mm "US A3" may be used, which will give smaller characters and will thus enable more detailed descriptions to be plotted in a smaller space. If plots are wider than 259 mm then unfortunately you must use the "Metric A3" setting.

Also for all logs headings use the "US A3" switch setting which will give the correct track widths on the plot and not cause data in the third track to be truncated on the right hand margin.

To set up your plotter for "US A3" plots use the following switch settings:–

switch 5 - 1
switch 6 - 1

For "Metric A3" plots set the plotter switches as follows:–

switch 5 - 1
switch 6 - 0

If switch setings are changed at any time remember to reset the plotter by either turning the POWER OFF and then ON again, or by pressing the ENTER and VIEW buttons on the plotter simultaneously.

3. Formtool v2.01D

New copies of Formtool are currently being distributed to all Windsor based units. With this new version a number of additional utility programs have been distributed, one of which is a package called "PrintVision" which will allow a form to be displayed on the screen in its entirety. We have, however, noticed a problem when this is run: if attempts are made to send an XLBASE plot to the screen immediately after using "PrintVision" either (i) the XLBASE plot program will hang up completely or (ii) it will generate a Floating Point Error and stop working. This appears to be caused because "PrintVision" is a memory resident program and when loaded does not allow correct operation of XLBASE. To resolve the problem simply re-boot the PC.

The bit tables in this Newsletter have been created by Adam Rope to summarize IADC codes for both Tri-cone bits and Diamond/TSP /PDC bits, since the latter are now in frequent use. The tables were produced using "Formtool" and can easily be modified as new codes are added. If you would like a copy of these files, or Formtool itself, contact the Windsor Software department or Ian Goodenough in Aberdeen.

If anybody else has similarly useful tables or forms that they would like to share with other field operators please leave a copy with your software support group who will compile a master disk for distribution to all units using PCs. Thanks to Adam for his efforts with these tables (not bad for someone who doesn't like PCs)!

Exlog Services,
P.O. Box 46,
Windsor,
Berks
SL4 5LF.

January 1990

Dear Region,

Over the past few months (and in this very newsletter) we have been advertising for field geologists who would like to be considered for career moves into a broad range of management and technical positions. I have been frankly mystified at the lack of response. With a field staff that is 100% graduate calibre I had expected to be deluged with responses from personnel looking for a step up the proverbial ladder. I would be very interested to hear your opinions as to why we were so mistaken.

The positions offered have ranged from London based marketing to Congo based operations and Windsor based training. We haven't mentioned pay, so is this a reason? Are all our geologists so addicted to rig food that they can't contemplate leaving it or did all the letters get lost in the Christmas post?

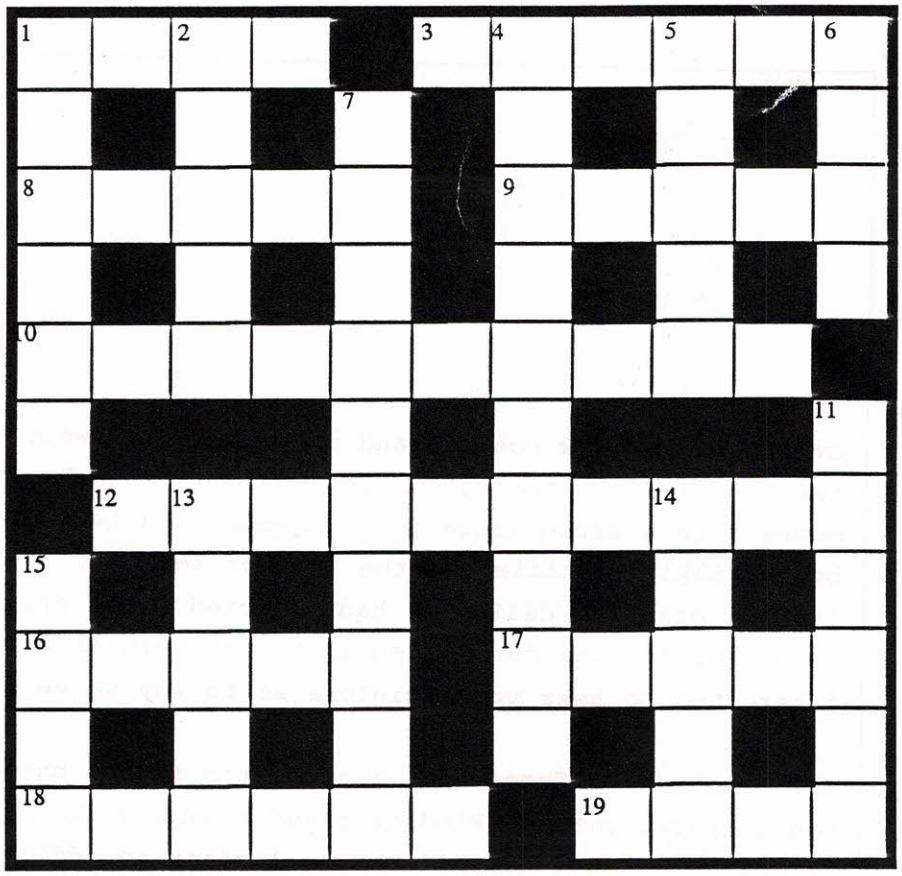
The Career path within Exlog is a very real and dynamic one, indeed recently quite a number of Exlog managers who (of course) started in the field have been moved into very senior Baker Hughes positions. For those who remember Tim Probert, he is now President of Milpark, Keith Morley is VP of Baker Oil Tools, Dave Wallis is General Manager of Baker Performance Chemicals, and Peter Kirton is VP of Baker Sand Control.

In summary then, over the coming months (and years) it certainly appears that we shall be looking for a number of personnel to move into technical and managerial positions. Typically these would be two year assignments with a move into some next opportunity after that. What are your real hopes and aspirations and if you don't want a move then let me know why that is too.

(Now will I get any mail I wonder?)

Jim Gillet

by Zephyr



NLX2

ACROSS

1 Light shoe used to move liquids (4)
3 Arts graduate with one hundred weight produces base of 5 (6)
8 Make hole with parade ground discipline (5)
9 Note skin for action of 8 (5)
10 The coals or a Feldspar ? (10)
12 Celebrity angles for marine Arthropods (10)
16 Remove road laid to rest (5)
17 wear away any tailless cupid of france (5)
18 Residual topographic feature concerning hundred in French bed (6)
19 Part of microscope belonging to Mr Murray (4)

DOWN

1 Seed vessel and Sun produce oil (6)
2 Damp when majority surrounds individual (5)
4 Fine grained rocks formed from clay mineral and bundled rags (10)
5 Mesozoic system causes a stir (5)
6 Incline head East at meeting point (4)
7 'Ow do to Capricorn , for example, existing in more than one state (10)
11 South king follows East king South East back to gla cial ridges (6)
13 Part of Austria in mufti Rolex? (5)
14 Secure English head suggests author of stretching law (5)
15 Employer or American Queen ? (4)

Answer to the Prize-Crossword
Winner to be announced in next Newsletter

1 D	I	2 A	G	3 E	N	E	4 S	I	S	
E		R		T			T			5 C
N		C		H		6 H	A	T	C	H
7 U	L	T	R	A			G			R
D		I		8 N	U	9 E	E			O
10 A	R	C		O		M		11 G	I	N
T			12 S	L	A	B		L		O
I			P			13 A	T	O	L	L
14 O	R	B	I	T		Y		M		O
N			L			E		A		G
	15 M	I	L	L	I	D	A	R	C	Y

EXLOG
A Baker Hughes company
... Advancing Drilling

TABLE OF IADC BIT CODES			1: MANUFACTURERS					
VENDOR	MAKE	CODE	VENDOR	MAKE	CODE	VENDOR	MAKE	CODE
CHRIS	C-18	98163	D.BOART	TD-103	92066	HUGHES	X44	6151
CHRIS	C-201	98143	D.BOART	TD-105	91037	HUGHES	XDG	1351
CHRIS	C-22	99194	D.BOART	TD-202	92084	HUGHES	XDR	3451
CHRIS	C-23	98285	D.BOART	TT-593	92223	HUGHES	XDV	2151
CHRIS	C-40	99297	D.BOART	CB-203	98285	HUGHES	XV	2141
CHRIS	D-24	94285	HUGHES	DR5	2211	HYCALOG	501	94285
CHRIS	D-262	92232	HUGHES	GJ22	5191	HYCALOG	525	95186
CHRIS	D-311	92353	HUGHES	GJ33	5391	HYCALOG	730	92343
CHRIS	D-331	92343	HUGHES	GJ55	6391	HYCALOG	901	92232
CHRIS	D-341	92372	HUGHES	HH33	5321	HYCALOG	906	92232
CHRIS	D-38	92232	HUGHES	HH44	6121	HYCALOG	CH	99194
CHRIS	D-41	92372	HUGHES	HH55	6321	HYCALOG	CM	99194
CHRIS	D-503	91112	HUGHES	HH55H	6321	HYCALOG	CS	99194
CHRIS	K-820	92016	HUGHES	HH77	7321	HYCALOG	CUH	99195
CHRIS	K-839	91112	HUGHES	HH88	8121	HYCALOG	CUHR	99194
CHRIS	K-859	91112	HUGHES	HH99	8321	HYCALOG	DS19	91042
CHRIS	R-381	92082	HUGHES	HR	3321	HYCALOG	DS23	92066
CHRIS	R-382	92083	HUGHES	J1	1161	HYCALOG	GEOPAX	97073
CHRIS	R-419	92038	HUGHES	J11	4371	HYCALOG	JP103	91042
CHRIS	R-422	92054	HUGHES	J11C	4471	HYCALOG	JP204	92054
CHRIS	R-426	91037	HUGHES	J2	1261	HYCALOG	MS1	92222
CHRIS	R-448	92066	HUGHES	J22	5171	HYCALOG	MS2	92372
CHRIS	R-481	92082	HUGHES	J22C	5271	HYCALOG	WE1	97074
CHRIS	R-482	92084	HUGHES	J3	1361	REED	CD43	98143
CHRIS	RC-444	97074	HUGHES	J33	5371	REED	CD44	98143
CHRIS	RC-473	97071	HUGHES	J33C	5471	REED	CD63	98163
CHRIS	RC-476	97073	HUGHES	J33H	5371	REED	CD94	99194
CHRIS	S-226	92463	HUGHES	J4	2161	REED	CD95	99195
CHRIS	S-248	92223	HUGHES	J44	6171	REED	CD96	99296
CHRIS	SC-226	97243	HUGHES	J44A	6191	REED	CD961	99297
CHRIS	SC-276	98183	HUGHES	J44C	6271	REED	CM71	97071
CHRIS	SC-279	99297	HUGHES	J55	6371	REED	CM721	97072
CHRIS	T-51P	92222	HUGHES	J55R	6271	REED	CM73	97073
CHRIS	T-54P	92343	HUGHES	J7	3161	REED	CM75	98075
D.BOART	CB-201	98285	HUGHES	J77	7371	REED	CM79	98079
D.BOART	CB-301	98143	HUGHES	J8	3461	REED	CS16	97116
D.BOART	CB-303	98143	HUGHES	J99	8371	REED	CT63	97163
D.BOART	CB-401	98286	HUGHES	JD3	1371	REED	F21	2163
D.BOART	CB-403	98286	HUGHES	JD4	2171	REED	F22	2263
D.BOART	CB-601	99297	HUGHES	JD8	3471	REED	FP52	5273
D.BOART	CD-502	97074	HUGHES	MX3A	1191	REED	FP53	5373
D.BOART	CD-504	97074	HUGHES	R1	1111	REED	FP54	5473
D.BOART	CD-512	97116	HUGHES	R2	1211	REED	HP11	1163
D.BOART	CT-303	97243	HUGHES	R3	1311	REED	HP12	1263
D.BOART	LX-13	91112	HUGHES	R4	2111	REED	HS51	5163
D.BOART	LX-16	91112	HUGHES	R7	3211	REED	RS42	91042
D.BOART	LX-17	91112	HUGHES	S	1221	REED	RS54	92054
D.BOART	LX-221	92016	HUGHES	W7C	3111	REED	RS82	91082
D.BOART	T-200	92083	HUGHES	W7R	3211	REED	RS83	92083
D.BOART	TB-521	94285	HUGHES	WO	2211	REED	RS84	92084
D.BOART	TB-523	94285	HUGHES	X11	4351	REED	RT23	92223
D.BOART	TB-573	93364	HUGHES	X1G	1341	REED	RT63	92463
D.BOART	TB-583	92232	HUGHES	X22	5151	REED	S11	1143
D.BOART	TB-593	92343	HUGHES	X3	1241	REED	S12	1243
D.BOART	TB-613	92343	HUGHES	X33	5351	REED	S13	1343
D.BOART	TB-701	92222	HUGHES	X3A	1141	REED	S13G	1353

TABLE OF IADC BIT CODES			1: MANUFACTURERS (2)					
VENDOR	MAKE	CODE	VENDOR	MAKE	CODE	VENDOR	MAKE	CODE
REED	S21	2143	SECURITY	S33SG	1154	SMITH	F6	7175
REED	S21G	2153	SECURITY	S3JD	1284	SMITH	F7	7375
REED	S23	2343	SECURITY	S3S	1114	SMITH	F8	7475
REED	S23G	2353	SECURITY	S3T	1214	SMITH	F9	8375
REED	S31G	3153	SECURITY	S4	1314	SMITH	FDG	1365
REED	S51A	5153	SECURITY	S44	1344	SMITH	FDGH	1375
REED	S52A	5253	SECURITY	S44F	1364	SMITH	FDS	1165
REED	S53A	5373	SECURITY	S44G	1354	SMITH	FDT	1265
REED	S62A	6253	SECURITY	S44GF	1374	SMITH	FV	2165
REED	Y11	1113	SECURITY	S4T	1314	SMITH	FVH	2175
REED	Y12	1213	SECURITY	S6	1414	SMITH	L4	3115
REED	Y13	1313	SECURITY	S66	1444	SMITH	L4H	3135
REED	Y13T	1313	SECURITY	S8	5434	SMITH	MSDT	1295
REED	Y21	2113	SECURITY	S82	4354	SMITH	SDG	1345
REED	Y21G	2133	SECURITY	S82CF	4474	SMITH	SDGH	1355
REED	Y22	2213	SECURITY	S82F	4374	SMITH	SDS	1145
REED	Y31	3113	SECURITY	S84	5154	SMITH	SDT	1245
REED	Y34	3413	SECURITY	S84F	5174	SMITH	SL4	3145
REED	Y62-JA	6223	SECURITY	S85F	5274	SMITH	SL4H	3155
REED	Y62A-JA	6223	SECURITY	S86	5354	SMITH	SV	2145
REED	Y73-JA	7323	SECURITY	S86F	5374	SMITH	SVH	2155
REED	Y83-JA	8323	SECURITY	S88	5454	SMITH	V2	2115
SECURITY	2S3SJD	1184	SECURITY	S88CF	5474	SMITH	V2H	2135
SECURITY	H100	8354	SECURITY	S88F	5474			
SECURITY	H100F	8374	SMITH	14JS	4455			
SECURITY	H10JA	8324	SMITH	2JS	5155	STRATA : BY D.BOART		
SECURITY	H7	3114	SMITH	3JS	5355			
SECURITY	H77	3144	SMITH	4GA	6195	STRATA	PD-1	92083
SECURITY	H7T	3114	SMITH	4JA	6125	STRATA	PD-21	92066
SECURITY	H84F	7374	SMITH	4JS	6155	STRATA	PD-2B	92054
SECURITY	H8JA	7324	SMITH	5GA	6295	STRATA	PD-11	91021
SECURITY	H88	7454	SMITH	5JA	6225			
SECURITY	M4	2214	SMITH	5JS	6255			
SECURITY	M44L	2344	SMITH	57JS	6355			
SECURITY	M44LF	2364	SMITH	6JS	7155			
SECURITY	M44N	2144	SMITH	7JA	6325			
SECURITY	M44NF	2164	SMITH	7JS	7255			
SECURITY	M44NG	2154	SMITH	8JS	7455			
SECURITY	M44NGF	2174	SMITH	9JA	8325			
SECURITY	M4N	2114	SMITH	BHDJ	1185			
SECURITY	M8	6234	SMITH	DG	1315			
SECURITY	M84	6154	SMITH	DGT	1335			
SECURITY	M84F	6174	SMITH	DS	1115			
SECURITY	M88	6254	SMITH	DT	1215			
SECURITY	M88F	6274	SMITH	DTT	1235			
SECURITY	M89	6254	SMITH	F1	4375			
SECURITY	M89F	6374	SMITH	F15	4475			
SECURITY	M89TF	6274	SMITH	F2	5175			
SECURITY	M8JA	6224	SMITH	F27	5375			
SECURITY	M833S	1194	SMITH	F3	5375			
SECURITY	S3	1214	SMITH	F37	5475			
SECURITY	S33	1244	SMITH	F4	6175			
SECURITY	S33F	1264	SMITH	F45	6175			
SECURITY	S33GF	1274	SMITH	F47	6275			
SECURITY	S33S	1144	SMITH	F5	6275			
SECURITY	S33SF	1164	SMITH	F57	6375			

EXLOG	BIT CODE APPLICATION

MILLTOOTH AND INSERT BITS :

4 DIGIT CODE (ABCD): N.B. ABC = IADC CODE

A = BIT SERIES (1 - 8): FORMATION TYPE
MILLTOOTH = 1 - 3
1: SOFT
2: MEDIUM
3: HARD
INSERT = 4 - 8
4: SOFT
5: SOFT-MEDIUM
6: MEDIUM-HARD
7: HARD
8: EXTREMELY HARD

B = BIT TYPE (1 - 4)

C = FEATURES (1 - 9)
1: STANDARD ROLLER BEARING MUD
2: STANDARD ROLLER BEARING AIR
3: ROLLER BEARING / GAUGE PROTECTED
4: SEALED ROLLER BEARING
5: SEALED ROLLER BEARING / GAUGE PROTECTED
6: SEALED FRICTION BEARING
7: SEALED FRICTION BEARING / GAUGE PROTECTED
8: DIRECTIONAL
9: OTHER

D = VENDOR CODE
1 = HUGHES; 3 = REED; 4 = SECURITY; 5 = SMITH

DIAMOND AND PDC BITS :

5 DIGIT CODE (ABCDE): N.B. NO CURRENT IADC CODING SYSTEM

A = GROUP I.D. (9)

B = BIT SERIES (1 - 9): FORMATION TYPE
FULL HOLE BIT (1 - 5)
1: SOFT
2: SOFT - MEDIUM
3: MEDIUM
4: MEDIUM - HARD
5: HARD
CORE BITS (7 - 9)
7: SOFT
8: MEDIUM
9: HARD

C = BIT TYPE (0 - PDC, 1 - 4 DIAMOND)
1: SINGLE CRYSTAL 2: COATED 3: CARBONADO

D = BIT PROFILE (1 - 9)
1: STEP PROFILE
2: LONG TAPER
3: SHORT TAPER
4: NON TAPER
5: DOWNHOLE MOTOR
6: SIDE-TRACK
7: OIL BASED MUD
8: CORE EJECTOR
9: OTHER

E = CUTTER DENSITY (1 - 9)